SELF IMPLEMENTING CLEAN UP PLAN / CORRECTIVE ACTION PLAN

Carr Lot, Taylor Street, Montpelier, Vermont

SEI # 061752-R

1. INTRODUCTION

In 2002 and 2003, Metcalf & Eddy (M&E) conducted a Targeted Brownfield Assessment (TBA) of the Carr Lot Site on Taylor Street in Montpelier, Vermont (Site) under a grant to the Central Vermont Regional Planning Commission by United States Environmental Protection Agency (EPA) Region I. As part of this TBA, M&E presented costs for removing soils with total polychlorinated biphenyls (PCBs) in excess of 1 part per million to achieve Site closure under a high-occupancy end use scenario. These costs were estimated to be more than $1.75 million for disposal of contaminated soils.

In March, 2006 Stone was retained by Allan Carr (Site owner) to assist in developing an approach to address environmental concerns related to the Site and to achieve a Sites Management Activities Complete (SMAC) designation from the Vermont Department of Environmental Conservation (VT DEC). Initial review of offsite confirmation analyses of PCB concentrations (the initial TBA utilized an onsite lab) in soil revealed that only a small volume of soils in the center of the property required removal prior to capping to achieve a Site closure designation for low-occupancy end use (low occupancy remedial criteria are 25, 50 or 100 ppm for bulk PCB remedial wastes, depending on desired surface treatment and Site access control). However, the horizontal extent of PCB contamination in excess of the low-occupancy remedial criteria in Site soils was not adequately defined in the TBA to provide an adequate level of confidence that a soil removal would address all soils in excess of the low-occupancy remedial criteria. This Self Implementing Cleanup Plan (SICP) / Corrective Action Plan (CAP) presents results from a pre-remedial design investigation, as well as methodology for Site cleanup and cleanup confirmation sampling and analysis.

1.1. Site Background and Description

The Site is currently vacant with the exception of a bus terminal trailer, 6 automotive parking spaces and a bus pull-off for Green Mountain Transit. Access to the remainder of the Site was restricted from vehicular traffic by concrete barriers in September, 2006. Prior to this time, the Site was used as a parking lot for the City of Montpelier. The Site is bordered by the Winooski River to the south, the North Branch of the Winooski River to the east, a railroad right of way to the north and Taylor Street to the west. The majority of the Site is comprised of a recycled asphalt and gravel lot confined to the south and east by a vegetative buffer zone between the lot and the rivers.

Surficial soils at the Site consist of ground asphalt and gravel mix in the parking area and sandy loam in the vegetative buffer. Immediately underlying the surficial soils is mixed fill including sand, gravel, wood, brick, glass, coal, ash, metal, and plastic. Thickness of this fill layer ranges from 6 to 16 feet, thickening toward the south. The fill is underlain by 1 to 7 feet of bedded silt, clay and silty clay layers. The silt and clay is underlain by medium to course fluvial sand and gravel overlying bedrock. The bedrock ranges in depth from 6 to 20

ft bgs at the Site. It is assumed that both the fill and silt and clay layers exhibit low hydraulic conductivity and, hence, limit the vertical flow of groundwater.

Depth to the water table ranges from 15.5 to 16.5 feet bgs across the Site. Hydraulic gradient direction varies from westerly to southwesterly. It is assumed that the Winooski is a gaining stream along this reach and that groundwater discharges from the Site to the river.

Based on Site owner recounts, local knowledge from Stone staff and the M&E TBA, historical uses of the property include an agricultural warehouse, a stone mason shop, a railway depot and rail car house. Most recently the Site functioned as a scrap yard. Scrap yard operations began at the Site in 1945 and consisted of scrapping automobiles, electrical transformers and other metal-containing machinery. According to the Site owner, transformer scrapping activities were limited to a small area of the Site immediately northwest of the former rail car maintenance building (see Figure 1). Metal scrapping activities ceased at the Site in the early 1980s.

Following a Site fire in 1991, which destroyed the two existing Site structures, the City of Montpelier began leasing the property to serve as a parking lot. In September, 2006, the City of Montpelier's lease for the property expired and was not renewed. Automotive access to the Site is now restricted by concrete barriers; pedestrian traffic, however, is currently unrestricted. Between 1991 and 2006, the City of Montpelier maintained the Site by periodically grading and resurfacing the parking area, as well as providing snow removal services.

1.2. Previous Environmental Investigations

Concentration data for all environmental investigations conducted on the Site is presented by analyte group (volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs, and metals), media type (soil and groundwater), and sample date in Appendix A.

Environmental investigation of the Site began with a 1991 petroleum spill report filed by the VT DEC. The spill report was in response to an anonymous call to the VT DEC that there was a visible petroleum slick on the Winooski River in the area of the Taylor Street Bridge, adjacent to the Site. This finding resulted in the immediate removal of a 750-gallon gasoline underground storage tank (UST) that was erroneously thought to be the source of the petroleum slick observed on the river. The UST was removed without incident or evidence of a prior release by Griffin International in 1991. The source of the oil slick was later determined to be a 250-gallon kerosene aboveground storage tank (AST) that was positioned adjacent to a wooden building located in the south western corner of the Site. According to owner accounts, the kerosene AST was tipped during fire fighting efforts in

1991 resulting in a spill. Presumably the AST was removed during cleanup activities following the fire.

A Phase I Environmental Site Assessment (ESA) was conducted in 1991 by Dubois and King Engineers, Inc. During the course of this ESA, shallow soils were assessed for VOC contamination across the Site. Using a photoionization detector (PID), soils were screened from the surface to 2 feet below ground surface (bgs). VOCs were found to range in shallow soils from non-detect to 1.2 parts per million (ppm).

In 2002, M&E conducted the TBA at the Site in an effort to determine the nature and extent of contamination on the Site for reuse purposes. Initially, twelve soil borings were advanced at the Site with samples collected from ten locations. Three soil borings were completed as groundwater monitoring wells. During the supplemental investigation conducted by M&E in 2003, 70 soil samples were collected from 25 locations. Four additional monitoring wells were installed as part of the supplemental investigation. Results from both the initial TBA and TBA addendum are presented below.

1.2.1. Groundwater:

Groundwater samples collected from the three wells (ME 1, ME 2, and ME 8) installed during the initial TBA were analyzed for VOCs, volatile petroleum hydrocarbons (VPH), extractible petroleum hydrocarbons (EPH) and metals. Monitoring wells ME 1 and ME 2, located in the western portion of the Site, contained concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) in excess of the Vermont Groundwater Enforcement Standard (VGES). It was proposed by M&E that these contaminants originated from an off-site source, likely the Capital Plaza site (VT DEC Sites Management Section (SMS) #921239). The Capital Plaza site is documented to have impacted groundwater within the vicinity of the Capital Plaza property with PCE and TCE and is located directly upgradient of the Site.

Metals analyses performed during the TBA and addendum confirmed that iron and manganese in groundwater exceeded VGES criteria. Iron and manganese are naturally occurring in the environment, particularly within alluvial deposits. This natural condition is compounded by the urban setting of the Site. The 2003 follow-up investigation notes that the groundwater standards for these metals are secondary enforcement standards developed for aesthetic purposes (i.e. taste, odor or color). Background concentrations for iron and manganese were not determined as part of the TBA. No groundwater samples were analyzed for PCBs and PAHs as part of the TBA.

1.2.2. Soils:

Surficial soils (1 to 4 bgs) were found to contain concentrations of PCBs, polyaromatic hydrocarbons (PAHs), lead, total chromium and iron in excess of US EPA Region IX preliminary remediation goals (PRGs) in several areas of the Site. PCB contamination in near surface soils ranged from non-detect along the perimeter of the Site to 103 ppm near the center of the Site. Distribution of PCBs in near surface Site soils may be indicative of transport by Site resurfacing, re-grading or snow removal operations rather than multiple source areas.

Deep subsurface soils (sampled at the water table; approximately 16 feet bgs) were determined to be below regulatory criteria for each analyte of concern. Volatile organic compounds (VOCs) were not analyzed as part of either the surficial or sub surface soil sampling and analyses.

1.2.3. Baseline Human Health Risk Assessment

As part of the follow-up to the TBA investigation, a Baseline Human Health Risk Assessment (HHRA) was conducted to evaluate the potential impact to future users of the Site. This investigation included performing 25 additional borings and the installation of four temporary monitoring wells (MW A, MW B, MW C, and MW D). Following installation, MW A was sampled along with wells installed during the TBA (ME 1, ME 2, and ME 8 (erroneously referred to as ME 3 in the TBA addendum)). This secondary effort confirmed that VOCs (TCE and PCE) and metals (iron and manganese) are present in groundwater at levels greater than their respective VGES criteria.

The quantitative risk assessment (QRA) calculated a cleanup goal for lead in surface soils of 1,545 mg/kg and 15.4 mg/kg for total PCBs. The assumed future Site use that served as the basis for the QRA cleanup goals was for a multimodal transit station and municipal park. Although the QRA has not been revised, it is assumed that a low occupancy reuse scenario, such as a parking lot, would raise this cleanup goal considerably.

1.3. Remedial Alternatives Primer

According to the November 2005 US EPA document titled "*Polychlorinated Biphenyl (PCB) Site Revitalization Guidance Under the Toxic Substances Control Act (TSCA)",* remedial alternatives are based on the type of contaminated media and the end use of the property. Contaminated soils at the Site are considered bulk PCB remediation wastes. Types of wastes that are included in this media type include excavated soils, in situ soils, sediment, dredged materials, mud, PCB sewage sludge, and industrial sludge.

The end uses of a property are classified as either high or low occupancy areas under the self-implementing cleanup provisions of 40 CFR 761.61(a). A high occupancy area is one where PCBs have been disposed of on Site and where annual occupancy for any individual not wearing dermal or respiratory protection is 335 hours or more (an average of 6.7 hours per week) for bulk PCB remediation waste. A low occupancy area is one where PCBs have been disposed of on Site and where annual occupancy for an individual not wearing dermal or respiratory protection is less than 335 hours. The current preferred end use of the Site as a parking facility implies that the Site will be (and currently is) a low occupancy area.

When the procedures and requirements for a low occupancy area or for a high occupancy area that uses a cap as part of the remedial strategy are used, an institutional control such as a deed restriction must be implemented. This deed restriction requirement includes a notation in perpetuity so that potential purchasers receive a disclosure about: the PCB waste that was disposed of at the site, the use restrictions that apply to all future owners, the PCB cleanup levels inside the fence or under the cap, and the owner's obligation to maintain the fence/cap. For bulk PCB remediation wastes in low occupancy areas, the following PCB cleanup levels apply.

- **≤ 25 ppm in soils**
  Property must have institutional controls set forth in a deed restriction.
- **> 25 ppm, but ≤ 50 ppm in soils**
  Site access must be secured by a fence and denoted as containing PCBs.
  Property must have institutional controls set forth in a deed restriction.
- **> 50 ppm, but ≤ 100 ppm in soils**
  Site must be covered with an appropriate cap
  Property must have institutional controls set forth in a deed restriction.

Soils found to have a concentration of PCBs greater than 100 ppm must be removed from the Site. Additionally, completion of cleanup must be verified via sampling (40 CFR 761 subpart O) or a risk-based sampling plan approved by EPA pursuant to 40 CFR 761.61(c).

2. PRE-REMEDIAL DESIGN INVESTIGATION OBJECTIVES

Pre-remedial design investigative objectives for the Site include assessment of Site groundwater in the context of known contaminants in surficial soil and quantifying the volume of Site soils that are in excess of applicable remedial thresholds.

2.1. Groundwater Investigation Objectives

Through the review of previous investigation documentation, Stone identified the following potential environmental liabilities associated with Site groundwater:

- The potential for PCB, PAH and Metals contamination to leach from surficial soils into groundwater;
- The potential for PCB, VOC and metals contamination to migrate off Site via groundwater;
- The probability that up-gradient groundwater contamination is migrating onto and adversely impacting the groundwater quality of the Site.

Contribution to Site groundwater by VOC contamination from upgradient sources is currently documented with two identified sources (Capitol Plaza and Capitol Mobil/Texaco). Stone believes that the PCE and TCE groundwater contamination under the Site is a result of migration from these upgradient sources and that no further efforts will be undertaken with respect to those groundwater contaminants. The potential impacts of site-related contaminants (e.g., PAH, PCBs, and metals) on groundwater quality and their potential to migrate offsite had not been adequately assessed in prior investigations. As a result, Stone proposes the following:

- Determine the degree and extent, if any, of Site-related PCB contamination in groundwater in areas immediately downgradient of known PCB source areas.
- Evaluate Site-wide temporal variations of groundwater contaminant concentrations and potentiometric surface data.

The objective for taking these actions is to determine if PCB-contaminated soils onsite are impacting groundwater. If groundwater is found to be impacted by PCB contamination originating from the Site, the groundwater receptor pathway would need to be addressed. If groundwater has not been impacted by Site soils, potential human receptors may be affected only via direct contact with near surface soils. Stone's proposed mitigation of this exposure pathway is to excavate soils that are in excess of Toxic Substance Control Act (TSCA) remedial criteria and to mitigate exposure to PAH and Metal-contaminated soils by capping

the Site with asphalt. Capping Site soils with asphalt will also serve to limit recharge of Site groundwater, further eliminating the potential for contaminants leaching to groundwater.

2.2. Soil Investigation Objectives

The Corrective Action Feasibility Investigation (CAFI), presented within the M&E TBA, estimated costs to remediate PCB contamination in near-surface Site soils in excess of $1.75 million. This estimate was based upon the assumption of a high occupancy end use. Specifically, this use includes a shared use of a multi-modal transit station by the City of Montpelier and a municipal park. As such, the remedial threshold for PCB cleanup was 1 ppm. In light of the costs associated with the high occupancy remedial alternative, further evaluation by the Site owner has eliminated or postponed this possibility for Site reuse. The preferred end use is now as a private parking lot with future Site user exposure being very limited. Therefore, the remedial thresholds designated by the Toxic Substances Control Act (TSCA) are for a low occupancy end use.

Prior to generating costs for removal of soils in excess of the low-occupancy remedial alternatives, accurate volumes of soil with concentrations greater than the remedial thresholds need to be calculated.

3. PRE-REMEDIAL DESIGN METHODOLOGY

3.1. Groundwater Monitoring

Inspection of the existing monitoring well network at the Site revealed that 5 of the 7 previously installed monitoring wells had been destroyed. Consequently, the current status of Site groundwater could not be assessed without the installation of additional wells. To compensate for the destruction of these wells and to complement the remaining two wells, three additional wells were installed using direct push methods. Well construction details are presented in Appendix B; well locations are displayed in Figure 1. Wells were screened over a similar vertical interval as the well that was replaced, and were generally screened from the water table to the bedrock surface. Wells were finished with 5-inch cast iron road boxes set below grade. Setting wells below grade will, hopefully, prevent their destruction during snow removal or during light surface re-grading.

Both pre-existing and new monitoring wells were developed by purging water with a peristaltic pump until purge water became clear. Volumes of purge water ranged from 5 to 10 gallons. After allowing the groundwater to recharge following development, the wells were surveyed for elevation using an auto level and for horizontal position using taped measurements from known benchmarks.

Samples from monitoring wells were collected 1 week following well development. Volatile organic compound (VOC) Samples were collected via US EPA's low flow methodology using a peristaltic pump and a zero headspace sampling jig positioned on the negative (suction) side of the pump. Samples for PCB and Metals analyses were collected on the positive side of the peristaltic pump. Samples were preserved as appropriate per laboratory requirements. Field duplicates were collected at a frequency of 10% of the environmental samples and were collected in the same manner. Samples collected during the initial round of groundwater sampling were analyzed for VOCs via SW 846 EPA Method 8260, PCBs via SW 846 EPA Method 8082, and selected metals (Fe, Na, and Mn) via SW 846 EPA Method 6010. All samples were transferred under Chain of Custody to Endyne Laboratory in Williston, VT for analyses.

3.2. Soil Borings to Delineate E-8 and S-4 Hotspot

The extent of PCB contamination at the center (sample locations designated E-8 and S-4 in the M&E TBA) of the Site was bound to the north, east and south during the TBA, but was unconfined in the southwest, west or northwest directions. Five soil borings were completed to 5 feet below ground surface. The location of each boring is shown in Figure 1. Borings were completed using a DT32 dual tubing coring tool advanced by a track-mounted Geoprobe 6610 DT. Soil cores were collected in 2.125 inch outer diameter acetate sleeve. Soils were logged by Stone field staff and sub-sampled from 1 to 2 feet bgs and from

2 to 4 feet bgs. Individual sub-samples were homogenized in individual disposable aluminum plates using stainless steel spoons. Samples were placed in 4-ounce glass jars and kept on ice prior to and during transport under chain of custody to Endyne Laboratory in Williston, VT for analysis of PCBs via EPA Method 8082. Borings were backfilled with bentonite chips to grade.

4. RESULTS

4.1. Groundwater Results

Contours of the groundwater potentiometric surface are presented in Figure 2. Based on groundwater elevation data collected during the summer, 2006 sample event, direction of groundwater flow at the Site varies from south southwest in the eastern portion of the Site to southwest in the western portion of the Site. Variation in groundwater flow direction observed across the Site is likely attributable to influences of the North Branch of the Winooski River, located east of the Site.

Laboratory analytical results from the May 5, 2006 sampling event are presented in Appendix C and summarized in Table 1 below. VOCs detected in groundwater include trichloroethene (TCE), tetrachloroethene (PCE) and cis-1, 2-dichloroethene (cis-DCE) and were limited to wells in the western portion of the Site (ME-1, ME-2, and MW-103).

PCBs were not detected in any Site groundwater. Chromatograms for each sample are included in Appendix C.

Metals were detected in all Site groundwater wells and were found to be in excess of VGES for Manganese in both MW-101 and ME-2. Concentration standards for sodium and iron in groundwater are not maintained by the State of Vermont; however both of these elements are present in Site groundwater at high levels.

Table 1: Analytical groundwater results from the May 5, 2006 sampling event.

Analyte	Unit	VGES[1]	ME 1	ME 2	MW 101	MW 101 Dup	MW 102	MW 103
VOCs								
Tetrachloroethylene	ug/L	5	2.4	1.3	<1.0	<1.0	<1.0	3.8
Trichloroethylene	ug/L	5	3.4	2.3	<1.0	<1.0	<1.0	4.7
cis-1,2-Dichloroethylene	ug/L	70	9.3	2.1	1.4	1.1	1.1	4.2
Total PCBs	ug/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Metals[2]								
Sodium	mg/L		433	525	575	581	288	395
Manganese	mg/L	0.84	0.062	**0.896**	**1.38**	**1.34**	0.531	0.123
Iron	mg/L		0.114	0.043	0.012	0.12	<0.010	0.012
ORP	mV	NA	162	147	-41		-145	39
pH	Unit less	NA	6.32	6.49	6.46		6.29	6.37
Spec. Conductance	µS	NA	2,377	3,187	3,323		1,868	2,584
DO	mg/L	NA	0.5	0.1	1.7		0.3	0.7

[1]VGES: Vermont Groundwater Enforcement Standard; [2]Metals: Total Metals (suspended and dissolved)

4.2. Soils Results

Soil strata observed within the immediate vicinity of E-8 were consistent with those presented in the M&E TBA and supplemental investigation. Surface soils in the E-8 area, as well as the rest of the Site, are comprised of gravely sand fill varying in thickness between 0.5 to 1.0 feet. This unit is underlain by gravel fill that ranges between 0.5 to 1.25 feet in thickness. Below the gravel layer is a 1 foot thick unit of cinders with coarse sand underlain by silty clay.

Of the eleven samples collected during the E-8 contamination delineation effort, seven samples contained PCBs. One of these samples (SB-4 from 1 to 2 feet bgs) had a concentration of PCBs greater than the TSCA remedial threshold for bulk soils (47.3 mg/Kg total PCBs versus 25 mg/Kg for bulk soils). No soils were found during the pre-remedial design investigation that contained concentrations of PCBs that exceeded to the 100 ppm remedial threshold for hot spot removal.

5. REMEDIAL APPROACH

Remedial cost estimates have been generated for each of the two low occupancy remedial alternatives. To summarize, the remedial alternatives are:

1) Option A: Excavate soils in excess of 100 mg/Kg
    a. Install competent cap (i.e. 6 inches of asphalt or 2 feet of compacted, lower-permeability soil, as specified in40 CFR 761.61(a)(7)) over all Site soils greater than 1 mg/Kg
    b. Place an institutional control via a deed restriction on the property
2) Option B: Excavate soils in excess of 25 mg/Kg
    a. Install indicator fabric over Site soils greater than 1 mg/Kg and PAH-/metals-contaminated soils
    b. Cap fabric with asphalt in accordance with standard engineering practices for automotive traffic.
    c. Place an institutional control via a deed restriction on the property

To generate accurate cost estimates, volumes of soil above remedial threshold for each option have been calculated.

5.1. Soil Volume Estimates

To take full advantage of all Site data, total PCB concentrations in soils values were tabulated for all locations including those from the two M&E TBAs and the Stone pre-remedial design investigation. Tabulated data were then imported to Environmental Visualization Software (EVS) 3-dimensionally displayed by location and depth. Volumes within a desired isoconcentration contour are calculated by interpolating between known data points across unknown space through kriging.

Soil volume calculated to have concentrations greater than the remedial Option A threshold of 100 ppm is less than 1 cubic yards (See Figure 3). The threshold for Option B soil volume of 25 ppm for remediation is approximately 3 cubic yards.

5.2. Assumptions for Soil Volume Estimates

Volumes of soils in excess of respective remedial threshold are based on interpolated values of soil concentrations, as well as interpolated elevations of borings. Ground shot reference points collected at various points across the site were extrapolated such that unknown elevations were calculated based on an estimated linear slope between known benchmarks. As the Site is devoid of significant undulations, Stone feels that this assumption is valid. Actual field volumes should not appreciably change.

As soil concentration data are interpolated for points without sample data, actual in situ concentrations may vary. Confirmation sampling and analysis is an imperative part of the remedial cleanup to ensure that soils do not remain onsite that are greater than the chosen remedial option threshold.

5.3. Proposed Remedial Alternative

Based on Site Owner preferences for final Site use, as well as the associated cost of the remedial options, Stone proposes to proceed with Remedial Option B. Remedial activities for the chosen remedial alternative include mobilization, Site preparation, excavation, confirmation sampling and analysis, transport of remedial wastes and disposal. Post-remedy Site regeneration activities include backfilling the excavation, surface grading, and demobilization. Due to timing of this remedial activity relative to seasonal operations of local asphalt batch plants, paving the Site with asphalt will be scheduled for spring, 2007. Site remedial tasks and regeneration will be performed by Clean Harbors, Inc. (CHI). Specifics on remedial and regeneration tasks are presented in the CHI proposal included herein as Appendix D.

6. REMEDIATION METHODOLOGY

As stated in the preceding sections, the scope of remedial excavation activities will be limited to those soils that are in excess of the 25 ppm TSCA remedial threshold for bulk PCB remediation wastes in low occupancy areas. Site activities will be performed in accordance to the Carr Lot Site Health and Safety Plan. Effective cleanup will be verified by confirmation sampling and analyses. Specific methodologies are detailed in the sections below.

6.1. Remedial Excavation

Prior to removing contaminated soils from 1 foot to 4 feet bgs, surficial soils will be removed in an initial half-foot lift with a backhoe equipped with a grading bucket. To avoid having to halt excavation of contaminated soils to further widen the surface soils excavation if the remedial excavation needs to be increased, a larger initial area of clean surface soils will be skimmed and stockpiled. Soils from 0.5 to 1.0 feet bgs will be treated as though they are contaminated and removed from the Site. As illustrated in Figure 3, soils targeted for excavation and disposal are limited to a small, centralized area of the Site. To avoid excavation and disposal of soils that do not require remedial action, CHI will utilize a Cusco vacuum truck to perform the excavation. In this manner, soils will be directly entrained within the disposal vehicle without having to handle the soils in iterative steps.

Soil excavation will halt when dimensions of the excavation include all soils greater than 25 ppm based on the EVS interpolation. Remaining PCBs concentrations will be confirmed less than 25 ppm through sampling and onsite analyses as described in Section 6.2. If, following results from onsite analyses, soils remain within the excavation that are greater than the 25 ppm threshold, the excavation will be expanded in the direction indicated by the confirmation sampling by 1 foot vertical cuts (for excavation walls) or 0.5 foot horizontal lifts (excavation floor). Iterative excavation-confirmation sampling and analysis will be continued until remaining Site soils are less than 25 ppm.

Contaminated Site soils will be transported to the CHI facility in Braintree, Massachusetts where it will be batched with other similar wastes. Ultimately, PCB contaminated soils from the Site will be transported to the CHI Grassy Mountain Landfill, Utah. Specific details on both CHI facilities can be found in Appendix D.

6.2. Confirmation Sampling and Analyses

6.2.1. Grid Sampling

Grid confirmation sampling will be conducted in accordance with 40 CFR 761.280. As displayed in Figure 4, grid axes are aligned north-south and east-west with a 1.5 meter (4.9 feet) frequency centered over boring E-8. To account for the 3-demensional nature of the excavation, horizontal sample grids will be established for every two feet of excavation depth. Based on the initial array of sample nodes, Stone will collect and analyze 22 soil samples from the excavation bottom and 14 samples from the excavation walls for confirmation (not including quality assurance/quality control (QA/QC) samples). Based on the limited types of media within the excavation profile, 36 samples should adequately define the extent of contaminated soils at the Site.

Samples will be collected from 3 inch by 4 inch zones at each sample node using stainless steel spoons. Stone will place soil samples in clean, stainless steel bowls and homogenize each sample prior to allocating needed volume for immunoassay and dry weight analyses. Sample nomenclature will reflect the location of the sample in 3-dimensional space. For example, sample A1-4.5 will be collected from node A1 at 4.5 feet bgs.

6.2.2. Onsite Immunoassay Analysis

Following collection of samples, Stone will perform onsite immunoassay PCB analysis using EPA method 4020. To provide results that allow for near-real time remedial decision making, Stone has elected a semi-qualitative immunoassay method that produces "greater than" or "less than" results. To ensure that all soils greater than the 25 ppm threshold are removed from the Site, Stone has chosen to utilize a 20 ppm working standard as the pass-fail benchmark for the immunoassay analysis. Specific methodology for the immunoassay analysis can be found in Appendix E.

In order to provide sample results on a dry weight basis, sub samples will be collected and set aside in sealed vials for percent moisture analysis. Percent moisture samples will be analyzed by heating a pre-weighed at 120 °C for 24 hours. Samples are then post-weighed. The ratio net loss of mass relative the initial sample weight determines the percent moisture.

6.2.3. Comparability Study

In accordance with 40 CFR 761 subpart Q, prior to conducting cleanup verification sampling and analysis, Stone will perform a comparability study to ensure that results from the onsite immunoassay analytical program can be reliably compared

to results from a traditional EPA method 8082 analysis with extraction via method 3550B. This comparability study will consist of analyzing a minimum of 10 samples from the Site with expected concentrations that bracket the desired cleanup level (as determined through EPA method 8082). Specifically, a minimum of three samples must have PCB concentrations below the specified cleanup level with one sample ≥90 and ≤100 percent of the cleanup level and a minimum of three samples with PCB concentrations greater than the specified cleanup level with one sample ≤110 and ≥100 percent of the cleanup level.

Results from the comparability study will be submitted to US EPA prior to initiation of Site remedial activities.

6.2.4. Quality Assurance/Quality Control

Field duplicate samples for onsite analyses will be collected on a 10 percent frequency in the same manner as parent samples. Samples for off Site confirmation analysis will be collected on a 20 percent frequency. Assuming 36 original verification samples, 8 samples will be collected for offsite confirmation. All samples for off Site confirmation will be collected in labeled, 4-ounce glass jars. Samples for off Site analyses will be stored and transported in iced coolers under chain of custody to Endyne Laboratory in Williston, Vermont for analysis by EPA method 8082.

6.3. Site Restoration Activities

Following effective removal of Site soils with PCBs in excess of 25 ppm, CHI will backfill the excavation with sand and gravel. Equipment used for excavation and sampling will be decontaminated prior initiation of backfill activities. Rinsate from decontamination will be contained and transported to the CHI facility in Braintree, Massachusetts. Stockpiled surface soils will be re graded over the disturbed area and compacted.

6.4. Reporting

Following receipt of disposal confirmation and laboratory results, Stone will prepare a final report for submittal to EPA and VT DEC. The report will contain a summary of all Site activities, analytical results of confirmation sampling and a copy of the institutional controls set forth in the deed restriction.

6.5. Schedule for Site Closure

Following approval of the Carr Lot SICP by EPA and the CAP by the VT DEC, the cleanup plan will be submitted by VT DEC to the City of Montpelier for a two week public comment period. Following the public comment period, remedial activities will proceed within one week. Stone anticipates that excavation and confirmation sampling activities

will be completed within one day. Results from off Site analyses will be returned to Stone within two weeks of submittal to the laboratory. The final report will be submitted to VT DEC and EPA within two weeks of receiving laboratory results. The Site owner will coordinate institutional controls via a notice to land records with his attorney and the City of Montpelier Clerk's Office. A copy of the notice will be forwarded to EPA and VT DEC when it is available.

APPENDIX A
TABLES

Table A.1. VOCs

Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2	
Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5	
VOCs/Petroleum Hydrocarbon																								
Acetone	14,000.00	54,000.00																						
Methyl-ethyl-ketone	2.20E+04	1.10E+05																						
Benzene	0.64	1.40																						
Tricloroethene	0.05	0.11																						
Toluene	520.00	520.00																						
Tetrachloroethene	0.48	1.30																						
Xylene	270.00	420.00																						
EPH C9 to C18 Aliph			5.60	U	11,000.00	J	72.00		18.00	U	12.00	U	49.00		940.00		36.00	U	15.00		800.00			
EPH C19 to C36 Aliph			11.00		3,400.00	J	950.00		21.00		63.00		150.00		6,500.00		1,000.00		22.00		2,100.00			
EPH C11 to C22 Arom			37.00		14,000.00	J	520.00		62.00		400.00		350.00		3,200.00		1,100.00		54.00		1,400.00			

Soil Boring	EPA Region IX	EPA Region IX	S-1	Q	S-1	Q	S-1	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-3	Q	S-3	Q	S-3	Q	S-3	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1 to 4		2 to 4		6 to 10		1 to 2		1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		1 to 4		2 to 4		4 to 10	
Sample Date			11/19/2002		11/19/2002		11/19/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	2.5		3		8		1.5		2.5		3		7		12		16		1.5		2.5		3.0		7.0	
VOCs/Petroleum Hydrocarbon																												
Acetone	14,000.00	54,000.00															78.00	U	27.00	U								
Methyl-ethyl-ketone	2.20E+04	1.10E+05															8.50	U	4.50									
Benzene	0.64	1.40															1.50	J	2.30	U								
Tricloroethene	0.05	0.11															2.00	J	3.80									
Toluene	520.00	520.00															3.60	U	2.30	U								
Tetrachloroethene	0.48	1.30															10.00		8.90									
Xylene	270.00	420.00															6.70	U	6.90	U								
EPH C9 to C18 Aliph																												
EPH C19 to C36 Aliph																												
EPH C11 to C22 Arom																												

Soil Boring	EPA Region IX	EPA Region IX	S-3	Q	S-3	Q	S-4	Q	S-4	Q	S-4	Q	S-4	Q	S-5	S-5	Q	S-5	Q	S-5	Q	S-5	Q	S-5	Q	S-6	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	Discrete		Discrete		1 to 2		1 to 4		2 to 4		4 to 10		1 to 2	1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2	
Sample Date			11/20/2002		11/20/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002	11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	12		16		1.5		2.5		3		7		1.5	2.5		3		7		14		16.0		1.5	
VOCs/Petroleum Hydrocarbon																											
Acetone	14,000.00	54,000.00	280.00	U	31.00	U																87		22	U		
Methyl-ethyl-ketone	2.20E+04	1.10E+05	230.00	U	2.40	U																8.5		2.2	U		
Benzene	0.64	1.40	70.00	J	2.40	U																2.5	U	2.2	U		
Tricloroethene	0.05	0.11	110.00	U	2.40	U																2.5	U	2.2	U		
Toluene	520.00	520.00	120.00		2.40	U																2.5	U	2.2	U		
Tetrachloroethene	0.48	1.30	110.00	U	2.40	U																2.5	U	2.2	U		
Xylene	270.00	420.00	77.00	J	7.20	U																7.5	U	6.4	U		
EPH C9 to C18 Aliph																											
EPH C19 to C36 Aliph																											
EPH C11 to C22 Arom																											

Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2	
Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5	

Soil Boring	EPA Region IX	EPA Region IX	S-6	Q	S-6	Q	S-6	Q	S-6	Q	S-6	Q	S-7	Q	S-7	Q	S-7	Q	S-8	Q	S-8	Q	S-9	Q	S-9	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4	
Sample Date			11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/21/2002		11/21/2002		11/21/2002								11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	2.5		3		7		11		16		1.5		3		7		1.5		3		7		1.5		3.0	
VOCs/Petroleum Hydrocarbon																										
Acetone	14,000.00	54,000.00							36.00		72.00															
Methyl-ethyl-ketone	2.20E+04	1.10E+05							2.00	U	2.40	U														
Benzene	0.64	1.40							2.00	U	2.40	U														
Tricloroethene	0.05	0.11							2.00	U	2.40	U														
Toluene	520.00	520.00							2.00	U	2.40	U														
Tetrachloroethene	0.48	1.30							2.00	U	2.40	U														
Xylene	270.00	420.00							2.00	U	2.40	U														
EPH C9 to C18 Aliph																										
EPH C19 to C36 Aliph																										
EPH C11 to C22 Arom																										

Soil Boring	EPA Region IX	EPA Region IX	S-9	Q	S-9	Q	S-9	Q	S-9	Q	S-9	Q	S-10	Q	S-10	Q	S-10	Q	T-2	Q	T-3	Q	E-1	Q	E-1	Q	E-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	4 to 6		6 to 8		8 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 4		1 to 4		1 to 2		2 to 4		6 to 10	
Sample Date			11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/19/2002		11/19/2002		11/1/2002		11/1/2002		11/1/2002	
Average Depth	Residential Soil	Industrial Soils	5		7		9		11		16		1.5		3		7		2.5		2.5		1.5		3.0		8.0	
VOCs/Petroleum Hydrocarbon																												
Acetone	14,000.00	54,000.00							11.00	U	43.00																	
Methyl-ethyl-ketone	2.20E+04	1.10E+05							2.20	U	5.60																	
Benzene	0.64	1.40							2.20	U	2.50	U																
Tricloroethene	0.05	0.11							2.20	U	2.50	U																
Toluene	520.00	520.00							2.20	U	2.50	U																
Tetrachloroethene	0.48	1.30							2.20	U	2.50	U																
Xylene	270.00	420.00							6.70	U	7.50	U																
EPH C9 to C18 Aliph																												
EPH C19 to C36 Aliph																												
EPH C11 to C22 Arom																												

Soil Boring	EPA Region IX	EPA Region IX	E-2	Q	E-2	Q	E-3	Q	E-3	Q	E-3	Q	E-4	Q	E-4	Q	E-5	Q	E-5	Q	E-6	Q	E-6	Q	E-6	E-6
Sample Date			11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002		11/1/2002	11/1/2002
Average Depth	Residential Soil	Industrial Soils	1.5		3		1.5		3		7		1.5		3		1.5		3		0.5		1.5		3.0	5.0
VOCs/Petroleum Hydrocarbon																										
Acetone	14,000.00	54,000.00																								
Methyl-ethyl-ketone	2.20E+04	1.10E+05																								
Benzene	0.64	1.40																								
Tricloroethene	0.05	0.11																								
Toluene	520.00	520.00																								
Tetrachloroethene	0.48	1.30																								
Xylene	270.00	420.00																								
EPH C9 to C18 Aliph																										
EPH C19 to C36 Aliph																										
EPH C11 to C22 Arom																										

Table A.2. PCBs

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2	
Sample Date				12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5	
PCBs																									
Aroclor 1248	0.22	1.00	25**	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.38	U	4.60	J	0.04	U	0.04	U		
Aroclor 1254	0.22	1.00	25**	0.04	U	0.04	U	0.71		0.04	U	0.04	U	0.54		6.00		0.36	U	0.04	U	0.81	J	0.12	
Aroclor 1260	0.22	1.00	25**	0.04	U	0.04	U	0.52		0.04	U	0.04	U	0.45		4.00		1.90		0.04	U	0.63	J	0.25	U
Total PCBs	0.22	1.00	25.00	0.04	U	0.04	U	1.23		0.04	U	0.04	U	0.99		10.00		6.50		0.04	U	1.44	J	0.12	

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	S-1	Q	S-1	Q	S-1	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-3	Q	S-3	Q	S-3	Q	S-3	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	1 to 4		2 to 4		6 to 10		1 to 2		1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		1 to 4		2 to 4		4 to 10	
Sample Date				11/19/2002		11/19/2002		11/19/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	2.5		3.0		8.0		1.5		2.5		3		7.0		12.0		16.0		1.5		2.5		3.0		7.0	
PCBs																													
Aroclor 1248	0.22	1.00	25**																			0.91	U						
Aroclor 1254	0.22	1.00	25**			0.25	U			1.90				0.25	U							0.80				0.80			
Aroclor 1260	0.22	1.00	25**			0.25	U			1.10				0.25	U							2.00				0.60			
Total PCBs	0.22	1.00	25.00			0.25	U			3.00				0.25	U							2.80				1.40			

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	S-3	Q	S-3	Q	S-4	Q	S-4	Q	S-4	Q	S-4	Q	S-5		S-5	Q	S-5		S-5	Q	S-5	Q	S-5	Q	S-6	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	Discrete		Discrete		1 to 2		1 to 4		2 to 4		4 to 10		1 to 2		1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2	
Sample Date				11/20/2002		11/20/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	12.0		16.0		1.5		2.5		3.0		7.0		1.5		2.5		3.0		7.0		14.0		16.0		1.5	
PCBs																													
Aroclor 1248	0.22	1.00	25**					6.70	P																			0.46	U
Aroclor 1254	0.22	1.00	25**					29.00				1.20		0.12		1.10				0.25	U	0.25	U					2.50	
Aroclor 1260	0.22	1.00	25**					6.40				0.28		0.25	U	0.62				0.25	U	0.25	U					0.72	
Total PCBs	0.22	1.00	25.00					**42.10**				1.48		0.12		1.72				0.25	U	0.25	U					3.68	

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	S-6	Q	S-6	Q	S-6	Q	S-6	Q	S-6	Q	S-7	Q	S-7	Q	S-7	Q	S-8	Q	S-8	Q	S-8	Q	S-9	Q	S-9	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4	
Sample Date				11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/21/2002		11/21/2002		11/21/2002								11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	2.5		3.0		7.0		11.0		16.0		1.5		3.0		7.0		1.5		3		7		1.5		3.0	
PCBs																													
Aroclor 1248	0.22	1.00	25**																			0.46	U						
Aroclor 1254	0.22	1.00	25**			1.60								0.25	U	3.10		0.60		0.50	U	0.93		0.08		0.30		0.25	U
Aroclor 1260	0.22	1.00	25**			0.30								0.25	U	0.40		0.25	U	0.21		1.60		0.25	U	0.13		0.25	U
Total PCBs	0.22	1.00	25.00			1.90								0.25	U	3.50		0.60	U	0.21		2.53		0.08		0.43		0.25	U

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	S-9	Q	S-9	Q	S-9	Q	S-9	Q	S-9	Q	S-10	Q	S-10	Q	S-10	Q	T-2	Q	T-3	Q	E-1	Q	E-1	Q	E-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	4 to 6		6 to 8		8 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 4		1 to 4		1 to 2		2 to 4		6 to 10	
Sample Date				11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/19/2002		11/19/2002		Nov-02		Nov-02		Nov-02	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	5		7		9		11.0		16.0		1.5		3.0		7		2.5		2.5		1.5		3		8	
PCBs																													
Aroclor 1248	0.22	1.00	25**																										
Aroclor 1254	0.22	1.00	25**	0.25	U	0.25	U	0.25	U					4.40		0.50	U	0.50	U					2.10		0.60		0.25	U
Aroclor 1260	0.22	1.00	25**	0.25	U	0.25	U	0.25	U					1.20		0.50	U	0.50	U					0.78		0.29		0.25	U
Total PCBs	0.22	1.00	25.00	0.25	U	0.25	U	0.25	U					5.60		0.50	U	0.50	U					2.88		0.89		0.25	U

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	E-2	Q	E-2	Q	E-3	Q	E-3	Q	E-3	Q	E-4	Q	E-4	Q	E-5	Q	E-5	Q	E-6	Q	E-6	Q	E-6		E-6	
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	1 to 2		2 to 4		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		1 to 2		2 to 4		0 to 1		1 to 2		2 to 4		4 to 6	
Sample Date				Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	1.5		3		1.5		3		7		1.5		3		1.5		3		0.5		1.5		3		5	
PCBs																													
Aroclor 1248	0.22	1.00	25**																					1.30					
Aroclor 1254	0.22	1.00	25**	0.40		0.25	U	0.82		0.25	U	0.50	U	0.38		0.25	U	0.90		0.50	U	0.20		2.40		0.25	U	0.25	U
Aroclor 1260	0.22	1.00	25**	0.29		0.25	U	0.29		0.25	U	0.23		0.20		0.25	U	2.40		0.50	U	0.09		1.20		0.25	U	0.25	U
Total PCBs	0.22	1.00	25.00	0.69		0.25	U	1.11		0.25	U	0.23		0.58		0.25	U	3.30		0.50	U	0.29		4.90		0.25	U	0.25	U

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2	
Sample Date				12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5	
PCBs																									
Aroclor 1248	0.22	1.00	25**			8.60						2.50	U					7.00		9.90		1.70	U		
Aroclor 1254	0.22	1.00	25**	0.80		2.60		0.25	U	0.50	U	93.00		0.80		0.50	U	5.90		5.00		8.90		0.50	U
Aroclor 1260	0.22	1.00	25**	0.50		11.00		0.25	U	0.50	U	10.00		0.14		1.00	U	12.00		1.10		10.00		0.50	U
Total PCBs	0.22	1.00	25.00	1.30		22.20		0.25	U	0.50	U	**103.00**		0.94		1.00	U	24.90		16.00		18.90		0.50	U

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	E-7	Q	E-7	Q	E-7	E-8	Q	E-8	Q	E-8	Q	E-9	Q	E-9	Q	E-9	Q	E-10	Q	E-10	Q	E-11	Q	E-11	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	0 to 1		1 to 2		2 to 4	0 to 1		1 to 2		2 to 4		0 to 1		1 to 2		2 to 4		1 to 2		2 TO 4		1 to 2		2 to 4	
Sample Date				Nov-02		Nov-02		Nov-02	Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	0.5		1.5		3	0.5		1.5		3		0.5		1.5		3		1.5		3		1.5		3	
PCBs																												
Aroclor 1248	0.22	1.00	25**			8.60					2.50	U					7.00		9.90		1.70	U					5.30	
Aroclor 1254	0.22	1.00	25**	0.80		2.60		0.25	U	0.50	U	93.00		0.80		0.50	U	5.90		5.00		8.90		0.50	U	8.70		4.50	
Aroclor 1260	0.22	1.00	25**	0.50		11.00		0.25	U	0.50	U	10.00		0.14		1.00	U	12.00		1.10		10.00		0.50	U	3.00		8.00	
Total PCBs	0.22	1.00	25.00	1.30		22.20		0.25	U	0.50	U	**103.00**		0.94		1.00	U	24.90		16.00		18.90		0.50	U	11.70		17.80	

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	E-12	Q	E-12	Q	E-12	Q	E-13	Q	E-13	Q	E-13	Q	E-14	Q	E-14	Q	E-14	Q	E-15	Q	E-15	Q	E-15	Q	SB-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	1 to 2		2 to 4		4 to 10	1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2	
Sample Date				Nov-02		Nov-02		Nov-02	Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		8/23/2006	
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	1.5		3		7	1.5		3		7		1.5		3		7		1.5		3		7		1.5	
PCBs																												
Aroclor 1248	0.22	1.00	25**																								0.18	U
Aroclor 1254	0.22	1.00	25**	0.25	U	0.25	U	0.25	U	0.50	U	1.00	U	0.25	U	1.60		0.25	U	0.25	U	6.00		0.50	U	0.50	U	1.16	
Aroclor 1260	0.22	1.00	25**	0.25	U	0.25	U	0.25	U	0.50	U	1.00	U	0.25	U	0.60		0.25	U	0.25	U	2.50		0.50	U	0.25	U	0.59	
Total PCBs	0.22	1.00	25.00	0.25	U	0.25	U	0.25	U	0.50	U	1.00	U	0.25	U	2.20		0.25	U	0.25	U	8.50		0.50	U	0.50	U	1.75	

Soil Boring	EPA Region IX	EPA Region IX	Other ARAR	SB-1	Q	SB-2	Q	SB-2	Q	SB-3	Q	SB-3	Q	SB-4	Q	SB-4	Q	SB-5	Q	SB-5	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	*MCP	2 to 4		1 to 2		2 to 4	1 to 2		2 to 4		1 to 2		2 to 4		1 to 2		2 to 4		
Sample Date				8/23/2006		8/23/2006		8/23/2006	8/23/2006		8/23/2006		8/23/2006		8/23/2006		8/23/2006		8/23/2006		
Average Depth	Residential Soil	Industrial Soils	**TSCA Low Occ Limited Removal	3		1.5		3	1.5		3		1.5		3		1.5		3		
PCBs																					
Aroclor 1248	0.22	1.00	25**	0.18	U	0.19	U	0.02	U	0.18	U	0.19	U	1.78	U	0.01	U	0.45	U	0.02	U
Aroclor 1254	0.22	1.00	25**	0.19		1.06		0.02	U	1.31		0.19	U	31.70		0.01	U	5.73		0.04	
Aroclor 1260	0.22	1.00	25**	0.18	U	0.33		0.02	U	2.13		0.19	U	15.60		0.01	U	6.48		0.05	
Total PCBs	0.22	1.00	25.00	0.19		1.39		0.02	U	3.44		0.19	U	**47.30**		0.01	U	12.21		0.10	

Table A.3. Metals

Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2		1 to 4	
Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5		2.5	
Metals																										
Aluminum	76,000.00	100,000.00	4,660.00		6,520.00		10,400.00		4,330.00		4,360.00		6,150.00		6,540.00		5,230.00		4,760.00		4,000.00					
Antimony	31.00	820.00	10.40	J	0.73	UJ	5.50	J	0.66	U	3.30	UJ	13.40	J	12.00		9.70	J	0.68	U	**38.80**					
Arsenic	0.39	2.70	**3.30**		**2.90**		**58.30**		**5.60**		**8.00**		**17.30**		**20.70**		**27.00**		**3.00**		**18.00**		**27.00**	U		
Barium	5,400.00	100,000.00	36.10		151.00		320.00		69.90		93.30		434.00		600.00		1,190.00		56.10		364.00		470.00	U		
Beryllium	150.00	2,200.00	0.06	UJ	0.07	UJ	0.63		0.06	UJ	0.18	J	0.12	J	0.07	UJ	0.08	J	0.07	UJ	14.00	J				
Cadmium	37.00	810.00	0.13	U	0.13	U	4.60	J	0.13	U	0.13	U	3.30	J	14.60	J	10.50	J	0.13	U	3.10	J	**110.00**			
Calcium	NS	NS	1,190.00		5,150.00		5,630.00		2,210.00		2,910.00		3,120.00		13,100.00		6,840.00		1,680.00		5,310.00					
Chromium	30.00	64.00	11.00		10.30		**31.00**		9.80		10.80		**58.70**		**72.70**		**56.50**		10.80		**36.50**		7.90	U		
Cobalt	4,700.00	100,000.00	4.60		3.10	U	13.10		5.20		4.60		7.80	J	9.90	J	8.40	J	3.90		7.90	J				
Copper	2,900.00	76,000.00	28.30	J	16.00	J	585.00	J	38.20	J	122.00	J	916.00	J	784.00	J	1,100.00	J	11.20	J	331.00	J	946.00			
Iron	23,000.00	100,000.00	9,740.00		14,900.00		**39,400.00**		13,600.00		18,700.00		**50,200.00**		**80,400.00**		**51,600.00**		9,160.00		**48,600.00**					
Lead	400.00	750.00	129.00	J	58.20	J	**1,270.00**	J	38.20	J	270.00	J	**1,940.00**	J	**7,700.00**	J	**3,650.00**	J	12.40	J	**1,530.00**	J	**23,000.00**			
Magnesium	NS	NS	2,250.00		3,740.00		3,330.00		2,360.00		1,930.00		2,850.00		3,490.00		2,700.00		2,480.00		2,440.00					
Manganese	1,800.00	32,000.00	218.00		290.00		420.00		278.00		230.00		432.00		674.00		769.00		233.00		406.00					
Mercury	23.00	610.00	0.05	UJ	0.05	UJ	0.33	J	0.12	J	0.07	J	1.30		1.70		1.90		0.06	UJ	1.20		0.12	U		
Nickel	1,600.00	41,000.00	13.70		5.50		69.40		14.50		16.00		39.40		68.00		70.80		13.20		86.50					
Potassium	NS	NS	942.00		5,230.00		725.00		1,160.00		951.00		1,570.00		930.00		862.00		1,060.00		717.00					
Selenium	390.00	10,000.00	1.00	U	1.00	U	1.90		1.00	U	1.10		1.20		3.40		1.80		1.00	U	1.40		46.00	U		
Silver	390.00	10,000.00	0.50	U	0.47	U	1.60	U	0.49	U	0.59	U	3.20	U	5.90		2.40	U	0.29	UJ	1.90	U	8.30	J		
Sodium	NS	NS	650.00	U	938.00	U	1,330.00		888.00	U	425.00	U	1,100.00		847.00	U	498.00	U	564.00	U	649.00	U				
Thallium	5.20	130.00	0.98	UJ	1.00	UJ	1.10	UJ	0.98	UJ	1.00	UJ	1.00	UJ	1.00	UJ	1.00	UJ	1.00	UJ	1.00	UJ				
Vanadium	530.00	14,000.00	9.90		23.00		20.40		9.90		10.50		20.30		33.60		13.60		10.00		37.40					
Zinc	23,000.00	100,000.00	23.50		197.00		1,280.00		65.80		631.00		1,820.00		2,670.00		2,380.00		21.50		906.00		1,310.00			

Soil Boring	EPA Region IX	EPA Region IX	S-1	Q	S-1	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-3	Q	S-3	Q	S-3	Q	S-3	Q	S-3	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	2 to 4		6 to 10		1 to 2		1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		1 to 4		2 to 4		4 to 10		Discrete	
Sample Date			11/19/2002		11/19/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	3.0		8.0		1.5		2.5		3		7.0		12.0		16.0		1.5		2.5		3.0		7.0		12.0	
Metals																												
Aluminum	76,000.00	100,000.00			2,710.00								5,550.00								7,470.00							
Antimony	31.00	820.00			0.72	UJ							2.10	J							11.40	J						
Arsenic	0.39	2.70			**8.40**	J							**3.70**	J							**9.00**	J			**27.00**	U		
Barium	5,400.00	100,000.00			21.10								122.00								158.00				680.00			
Beryllium	150.00	2,200.00			0.09								0.24								0.23							
Cadmium	37.00	810.00			0.08	U							1.60								2.00	J			17.00			
Calcium	NS	NS			4,930.00								3,510.00								2,770.00							
Chromium	30.00	64.00			7.20								**36.90**								29.10				7.90	U		
Cobalt	4,700.00	100,000.00			6.50								8.70								10.60							
Copper	2,900.00	76,000.00	63.00	U	152.00	J	784.00		557		387.00	J					598.00				315.00	J	353.00		324.00			
Iron	23,000.00	100,000.00			10,700.00						15,600.00										**31,900.00**							
Lead	400.00	750.00	85.00		22.80	J	**1,010.00**		**1,180**		**418.00**	J					**2,100.00**				**1,310.00**	J	**1,480.00**		**4400/1220**			
Magnesium	NS	NS			1,990.00						2,560.00										4,020.00							
Manganese	1,800.00	32,000.00			347.00						325.00										625.00							
Mercury	23.00	610.00			0.18	J					0.14	J									0.88				0.12	U		
Nickel	1,600.00	41,000.00			14.50						36.20										35.30							
Potassium	NS	NS			900.00	J					983.00	J									1,070.00	J						
Selenium	390.00	10,000.00			0.62	U					0.64	U									0.89	UJ			46.00	U		
Silver	390.00	10,000.00			0.32	J					0.65	J									1.10	J			5.10	U		
Sodium	NS	NS			97.70	U					141.00	J									109.00	U						
Thallium	5.20	130.00			0.79	UJ					0.66	UJ									2.80	UJ						
Vanadium	530.00	14,000.00			7.30						12.20										15.50							
Zinc	23,000.00	100,000.00	101.00		63.40		1,160.00		2,260		371.00						1,400.00				820.00		1,010.00		914.00			

Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2		1 to 4	
Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5		2.5	

Soil Boring	EPA Region IX	EPA Region IX	S-3	Q	S-4	Q	S-4	Q	S-4	Q	S-4	Q	S-5		S-5	Q	S-5		S-5	Q	S-5	Q	S-5	Q	S-6	Q	S-6	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	Discrete		1 to 2		1 to 4		2 to 4		4 to 10		1 to 2		1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		1 to 4	
Sample Date			11/20/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	16.0		1.5		2.5		3.0		7.0		1.5		2.5		3.0		7.0		14.0		16.0		1.5		2.5	
Metals																												
Aluminum	76,000.00	100,000.00									8,300.00								15,200.00									
Antimony	31.00	820.00									0.81	UJ							0.89	UJ								
Arsenic	0.39	2.70									**8.90**	J							**7.10**	J								
Barium	5,400.00	100,000.00									38.00								85.50									
Beryllium	150.00	2,200.00									0.21								0.45									
Cadmium	37.00	810.00									0.09	U							0.10	UJ								
Calcium	NS	NS									2,010.00								2,960.00									
Chromium	30.00	64.00									20.20								**33.10**									
Cobalt	4,700.00	100,000.00									10.40								16.70									
Copper	2,900.00	76,000.00			1,240.00				304.00		103.00	J	164.00				150.00	U	32.90	J			420.00					
Iron	23,000.00	100,000.00									19,300.00								**30,800.00**									
Lead	400.00	750.00			**1,640.00**				**648.00**		49.00	J	**694.00**				40.00	U	32.80	J			**1,600.00**					
Magnesium	NS	NS									3,790.00								8,140.00									
Manganese	1,800.00	32,000.00									492.00								716.00									
Mercury	23.00	610.00										R								R								
Nickel	1,600.00	41,000.00									26.60								43.10									
Potassium	NS	NS									915.00	J							2,080.00	J								
Selenium	390.00	10,000.00									0.69	U							0.76	U								
Silver	390.00	10,000.00									0.64	J							0.90	J								
Sodium	NS	NS									109.00	U							120.00	U								
Thallium	5.20	130.00									0.72	U							1.80	UJ								
Vanadium	530.00	14,000.00									15.40								25.10									
Zinc	23,000.00	100,000.00			6,760.00				1,090.00		128.00		612.00				70.00	U	82.90				2,000.00					

Soil Boring	EPA Region IX	EPA Region IX	S-6	Q	S-6	Q	S-6	Q	S-6	Q	S-7	Q	S-7	Q	S-7	Q	S-8	Q	S-8	Q	S-8	Q	S-9	Q	S-9	Q	S-9	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	2 to 4		4 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 6	
Sample Date			11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/21/2002		11/21/2002		11/21/2002								11/20/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	3.0		7.0		11.0		16.0		1.5		3.0		7.0		1.5		3		7		1.5		3.0		5	
Metals																												
Aluminum	76,000.00	100,000.00			3,040.00										10,900.00													
Antimony	31.00	820.00			2.50	J									**32.20**	J												
Arsenic	0.39	2.70	**27.00**	U	**3.10**	J									**6.40**	J												
Barium	5,400.00	100,000.00	1,900.00		84.20										62.40													
Beryllium	150.00	2,200.00			0.14										0.28													
Cadmium	37.00	810.00	37.00		0.08	U									0.10	UJ												
Calcium	NS	NS			6,630.00										9,520.00													
Chromium	30.00	64.00	7.90	U	10.60										23.00													
Cobalt	4,700.00	100,000.00			4.30										12.20													
Copper	2,900.00	76,000.00	344.00		37.10	J					150.00	U	183.00		61.60	J	293.00		1,500.00		150.00	U	150.00	U	150.00	U	150.00	U
Iron	23,000.00	100,000.00			13,400.00										**24,300.00**													
Lead	400.00	750.00	**7800/1690**		161.00	J					40.00	U	**550.00**		**1,320.00**	J	**504.00**		**2,400.00**		91.00		**453.00**		40.00	U	40.00	U
Magnesium	NS	NS			1,810.00										6,190.00													
Manganese	1,800.00	32,000.00			227.00										670.00													
Mercury	23.00	610.00	0.12	U	0.19	J									0.14	J												
Nickel	1,600.00	41,000.00			13.70										36.20													
Potassium	NS	NS			1,370.00	J									1,580.00	J												
Selenium	390.00	10,000.00	46.00	U	0.63	U									0.74	U												
Silver	390.00	10,000.00	21.00		0.48	J									0.85	J												
Sodium	NS	NS			99.40	U									154.00	J												
Thallium	5.20	130.00			0.65	UJ									1.60	UJ												
Vanadium	530.00	14,000.00			9.90										18.80													
Zinc	23,000.00	100,000.00	1,500.00		138.00						74.00		407.00		133.00		388.00		2,500.00		224.00		355.00		70.00	U	70.00	U

	Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q	S-1	Q
	Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2		1 to 4	
	Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002		11/19/2002	
	Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5		2.5	
	Soil Boring	EPA Region IX	EPA Region IX	S-9	Q	S-9	Q	S-9	Q	S-9	Q	S-10	Q	S-10	Q	S-10	Q	T-2	Q	T-3	Q	E-1	Q	E-1	Q	E-1	Q	E-2	Q
	Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	6 to 8		8 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 4		1 to 4		1 to 2		2 to 4		6 to 10		1 to 2	
	Sample Date			11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/19/2002		11/19/2002		Nov-02		Nov-02		Nov-02		Nov-02	
	Average Depth	Residential Soil	Industrial Soils	7		9		11.0		16.0		1.5		3.0		7		2.5		2.5		1.5		3		8		1.5	
Metals																													
Aluminum		76,000.00	100,000.00																										
Antimony		31.00	820.00																										
Arsenic		0.39	2.70									**27.00**	U																
Barium		5,400.00	100,000.00									1,600.00																	
Beryllium		150.00	2,200.00																										
Cadmium		37.00	810.00									**73.00**																	
Calcium		NS	NS																										
Chromium		30.00	64.00									9.70	J																
Cobalt		4,700.00	100,000.00																										
Copper		2,900.00	76,000.00	150.00	U	150.00	U					696.00		482.00		150.00	U					1,730.00		150.00	U			438	
Iron		23,000.00	100,000.00																										
Lead		400.00	750.00	40.00	U	64.00						**11000/3200**		**1,050.00**		178.00						**1,240.00**		**576.00**				210	
Magnesium		NS	NS																										
Manganese		1,800.00	32,000.00																										
Mercury		23.00	610.00									0.12	U																
Nickel		1,600.00	41,000.00																										
Potassium		NS	NS																										
Selenium		390.00	10,000.00									46.00	U																
Silver		390.00	10,000.00									23.00																	
Sodium		NS	NS																										
Thallium		5.20	130.00																										
Vanadium		530.00	14,000.00																										
Zinc		23,000.00	100,000.00	75.00	U	97.00						3,230.00		2,600.00		234.00						1,840.00		402.00				235	

	Soil Boring	EPA Region IX	EPA Region IX	E-2	Q	E-3	Q	E-3	Q	E-3	Q	E-4	Q	E-4	Q	E-5	Q	E-5	Q	E-6	Q	E-6	Q	E-6	Q	E-6	E-7	Q
	Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	2 to 4		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		1 to 2		2 to 4		0 to 1		1 to 2		2 to 4		4 to 6	0 to 1	
	Sample Date			Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02	Nov-02	
	Average Depth	Residential Soil	Industrial Soils	3		1.5		3		7		1.5		3		1.5		3		0.5		1.5		3		5	0.5	
Metals																												
Aluminum		76,000.00	100,000.00																									
Antimony		31.00	820.00																									
Arsenic		0.39	2.70																									
Barium		5,400.00	100,000.00																									
Beryllium		150.00	2,200.00																									
Cadmium		37.00	810.00																									
Calcium		NS	NS																									
Chromium		30.00	64.00																									
Cobalt		4,700.00	100,000.00																									
Copper		2,900.00	76,000.00	150	**U**	1,160		150	**U**	191		13		679		150	**U**	150	**U**	708		150	**U**				150	**U**
Iron		23,000.00	100,000.00																									
Lead		400.00	750.00	178		**2,130**		40	**U**	**704**		17		**1,890**		**407**		168		**1,120**		50					118	
Magnesium		NS	NS																									
Manganese		1,800.00	32,000.00																									
Mercury		23.00	610.00																									
Nickel		1,600.00	41,000.00																									
Potassium		NS	NS																									
Selenium		390.00	10,000.00																									
Silver		390.00	10,000.00																									
Sodium		NS	NS																									
Thallium		5.20	130.00																									
Vanadium		530.00	14,000.00																									
Zinc		23,000.00	100,000.00	381		5,320		70	**U**	463		26		2,580		176		170	**U**	1,700		219					197	

Table A.3. Metals

	Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q	S-1	Q
	Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2		1 to 4	
	Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002		11/19/2002	
	Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5		2.5	
	Soil Boring	EPA Region IX	EPA Region IX	E-7	Q	E-7		E-8	Q	E-8	Q	E-8	Q	E-9	Q	E-9	Q	E-9	Q	E-10	Q	E-10	Q	E-11	Q	E-11	Q	E-12	Q
	Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1 to 2		2 to 4		0 to 1		1 to 2		2 to 4		0 to 1		1 to 2		2 to 4		1 to 2		2 TO 4		1 to 2		2 to 4		1 to 2	
	Sample Date			Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02	
	Average Depth	Residential Soil	Industrial Soils	1.5		3		0.5		1.5		3		0.5		1.5		3		1.5		3		1.5		3		1.5	
Metals																													
Aluminum		76,000.00	100,000.00																										
Antimony		31.00	820.00																										
Arsenic		0.39	2.70																										
Barium		5,400.00	100,000.00																										
Beryllium		150.00	2,200.00																										
Cadmium		37.00	810.00																										
Calcium		NS	NS																										
Chromium		30.00	64.00																										
Cobalt		4,700.00	100,000.00																										
Copper		2,900.00	76,000.00	**4,000**		150	**U**	150	**U**	100		516		1,800		910		380		**4,600**		150	**U**	1,550		1,400		150	**U**
Iron		23,000.00	100,000.00																										
Lead		400.00	750.00	360		40		40	**U**	**1,500**		**588**		**851**		**4,000**		**1,400**		**4,600**		243		**4,310**		**6,200**		40	
Magnesium		NS	NS																										
Manganese		1,800.00	32,000.00																										
Mercury		23.00	610.00																										
Nickel		1,600.00	41,000.00																										
Potassium		NS	NS																										
Selenium		390.00	10,000.00																										
Silver		390.00	10,000.00																										
Sodium		NS	NS																										
Thallium		5.20	130.00																										
Vanadium		530.00	14,000.00																										
Zinc		23,000.00	100,000.00	5,600		160		70	**U**	2,120		4,100		1,660		3,200		1,400		4,920		619		8,430		8,700		361	

	Soil Boring	EPA Region IX	EPA Region IX	E-12	Q	E-12	Q	E-13	Q	E-13	Q	E-13	Q	E-14	Q	E-14	Q	E-14	Q	E-15	Q	E-15	Q	E-15	Q	SB-1	Q	SB-1	Q
	Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4	
	Sample Date			Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		Nov-02		8/23/2006		8/23/2006	
	Average Depth	Residential Soil	Industrial Soils	3		7		1.5		3		7		1.5		3		7		1.5		3		7		1.5		3	
Metals																													
Aluminum		76,000.00	100,000.00																										
Antimony		31.00	820.00																										
Arsenic		0.39	2.70																										
Barium		5,400.00	100,000.00																										
Beryllium		150.00	2,200.00																										
Cadmium		37.00	810.00																										
Calcium		NS	NS																										
Chromium		30.00	64.00																										
Cobalt		4,700.00	100,000.00																										
Copper		2,900.00	76,000.00	150	**U**	150	**U**	717		150	**U**	150	**U**	906		150	**U**	150	**U**	**4,400**		150	**U**	150	**U**				
Iron		23,000.00	100,000.00																										
Lead		400.00	750.00	78		40	**U**	**1,560**		218		78		**678**		50		81		**21,000**		68		261					
Magnesium		NS	NS																										
Manganese		1,800.00	32,000.00																										
Mercury		23.00	610.00																										
Nickel		1,600.00	41,000.00																										
Potassium		NS	NS																										
Selenium		390.00	10,000.00																										
Silver		390.00	10,000.00																										
Sodium		NS	NS																										
Thallium		5.20	130.00																										
Vanadium		530.00	14,000.00																										
Zinc		23,000.00	100,000.00	251		87		2,720		184		123		1,660		62		101		9,700		343		205					

Table A.4. sVOCs

Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2		1 to 4	
Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5		2.5	
SVOCs																										
Acetophenone	NS	NS																							360.00	U
Naphthalene	56.00	190.00	0.52	U	7.00	UJ	1.50	U	0.51	U	2.70		1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			**360.00**	U
2-Methylnapthalene	NS	NS	0.52	U	7.00	UJ	1.50	U	0.51	U	2.40		1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			360.00	UJ
1-1-Biphenyl	3,000.00	23,000.00																							360.00	U
Acenaphthalene	NS	NS	0.52	U	7.00	UJ	1.50	U	0.51	U	0.51	U	1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			360.00	U
Acenaphthene	3,700.00	38,000.00	0.52	U	7.00	UJ	1.50	U	0.51	U	5.20		1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			360.00	U
Dibenzofuran	150.00	1,600.00																							**360.00**	U
Diethylephthalate	49,000.00	150,000.00																							360.00	U
Fluorene	2,600.00	33,000.00	0.52	U	7.00	UJ	1.50	U	0.51	U	7.80		1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			360.00	U
Phenanthrene	NS	NS	0.52	U	7.00	UJ	1.50	U	0.51	U	39.00		1.40	U	2.20	U	3.30		0.50	U	1.40	U			400.00	
Anthracene	22,000.00	100,000.00	0.52	U	7.00	UJ	1.50	U	0.51	U	12.00		1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			50.00	J
Carbazole	24.00	86.00																							**37.00**	J
Di-n-butylphthalate	6,100.00	62,000.00																							64.00	J
Fluoranthrene	2,300.00	30,000.00	0.52	U	7.00	UJ	1.50	U	0.51	U	27.00		1.50		5.60		1.30		0.50	U	1.70				490.00	
Pyrene	2,300.00	54,000.00	0.52	U	7.00	UJ	1.50	U	0.51	U	21.00		1.60		4.80		3.00		0.50	U	1.90				480.00	
Butylbenzylphthalate	12,000.00	100,000.00																							360.00	U
Benzo(a)anthracene	0.62	2.90	0.52	U	**7.00**	UJ	**1.50**	U	0.51	U	**12.00**		**1.40**	U	**1.40**	U	**1.30**	U	0.50	U	**1.40**	U			**180.00**	J
Chrysene	62.00	290.00	0.52	U	7.00	UJ	1.50	U	0.51	U	11.00		1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			**240.00**	J
(Bis(2-ethylhexyl)phthalate	35.00	120.00																							**66.00**	J
Benzo(b)fluoranthene	0.62	2.90	0.52	U	**7.00**	UJ	**1.50**	U	0.51	U	**8.30**		**1.40**	U	**1.40**	U	**1.30**	U	0.50	U	**1.40**	U			**250.00**	J
Benzo(k)fluoranthene	6.20	29.00	0.52	U	**7.00**	UJ	1.50	U	0.51	U	3.00		1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			**200.00**	J
Benzo(a)pyrene	0.06	0.29	**0.52**	U	**7.00**	UJ	**1.50**	U	**0.51**	U	**7.00**		**1.40**	U	**5.90**		**1.30**	U	**0.50**	U	**1.60**				**150.00**	J
Indeno(1,2,3-cd)pyrene	1.00	2.90	0.52	U	**7.00**	UJ	**1.50**	U	0.51	U	0.51	U	**1.40**	U	**1.40**	U	**1.30**	U	0.50	U	**1.40**	U			**100.00**	J
Dibenzo(a,h)anthracene	0.06	0.29	**0.52**	U	**7.00**	UJ	**1.50**	U	**0.51**	U	**0.51**	U	**1.40**	U	**1.40**	U	**1.30**	U	**0.50**	U	**1.40**	U			**360.00**	U
Benzo(g,h,i)perylene	NS	NS	0.52	U	7.00	UJ	1.50	U	0.51	U	0.51	U	1.40	U	1.40	U	1.30	U	0.50	U	1.40	U			76.00	J

Soil Boring	EPA Region IX	EPA Region IX	S-1	Q	S-1	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-2	Q	S-3	Q	S-3	Q	S-3	Q	S-3	Q	S-3	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	2 to 4		6 to 10		1 to 2		1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		1 to 4		2 to 4		4 to 10		Discrete	
Sample Date			11/19/2002		11/19/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	3.0		8.0		1.5		2.5		3		7.0		12.0		16.0		1.5		2.5		3.0		7.0		12.0	
SVOCs																												
Acetophenone	NS	NS	350	U	150	J	350	U											48	J	82	J						
Naphthalene	56.00	190.00	**350**	U	46	J	**350**	U	2	U	2	U							**110**	J	**350**	J	**1,700**					
2-Methylnapthalene	NS	NS	350	UJ	36	J	350	UJ											63	J	140	J						
1-1-Biphenyl	3,000.00	23,000.00	350	U	360	U	350	U											360	U	71	J						
Acenaphthalene	NS	NS	350	U	50	J	350	U											200	J	1,200							
Acenaphthene	3,700.00	38,000.00	350	U	360	U	350	U											360	U	390							
Dibenzofuran	150.00	1,600.00	**350**	U	**360**	U	**350**	U											47	J	100							
Diethylephthalate	49,000.00	150,000.00	350	U	360	U	350	U											360	U	390	U						
Fluorene	2,600.00	33,000.00	350	U	360	U	350	U											52	J	1,500							
Phenanthrene	NS	NS	350	U	370		45	J											850		150,000	D						
Anthracene	22,000.00	100,000.00	350	U	76	J	350	U											180	J	2,600							
Carbazole	24.00	86.00	**350**	U	**360**	U	**350**	U											**360**	U	**730**							
Di-n-butylphthalate	6,100.00	62,000.00	350	U	130	J	350	U											48	J	1,100							
Fluoranthrene	2,300.00	30,000.00	350	U	690		60	J											2,000		**16,000**	D						
Pyrene	2,300.00	54,000.00	350	U	220	J	58	J											1,600		**8,500**	D						
Butylbenzylphthalate	12,000.00	100,000.00			360	U													360	U								
Benzo(a)anthracene	0.62	2.90	**350**	U	**360**		**43**	J											**1,000**		**6,000**	D						
Chrysene	62.00	290.00	**350**	U	**400**		56	J											**1,200**		**5,300**	D						
(Bis(2-ethylhexyl)phthalate	35.00	120.00	**110**	J	**220**	J	**51**	J											**84**	J	**92**	J						
Benzo(b)fluoranthene	0.62	2.90	**350**	U	**420**		**57**	J											**1,200**		**4,000**	D						
Benzo(k)fluoranthene	6.20	29.00	**350**	U	**380**		**45**	J											**1,200**		**3,700**	DJ						
Benzo(a)pyrene	0.06	0.29	**350**	U	**67**	J	**350**	U											**540**		**1,300**							
Indeno(1,2,3-cd)pyrene	1.00	2.90	**350**	U	**86**	J	**350**	U											**530**		**1,200**							
Dibenzo(a,h)anthracene	0.06	0.29	**350**	U	**100**	J	**350**	U											**220**	J	**560**							
Benzo(g,h,i)perylene	NS	NS	350	U	360	U	350	U											75	J	86	J						

Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2		1 to 4	
Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5		2.5	

Soil Boring	EPA Region IX	EPA Region IX	S-3	Q	S-4	Q	S-4	Q	S-4	Q	S-4	Q	S-5		S-5	Q	S-5		S-5	Q	S-5	Q	S-6	Q	S-6	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	Discrete		1 to 2		1 to 4		2 to 4		4 to 10		1 to 2		1 to 4		2 to 4		4 to 10		Discrete		Discrete		1 to 2		1 to 4	
Sample Date			11/20/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/21/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	16.0		1.5		2.5		3.0		7.0		1.5		2.5		3.0		7.0		14.0		16.0		1.5		2.5	
SVOCs																												
Acetophenone	NS	NS					380	U			380	U			350	U			420	U							80	J
Naphthalene	56.00	190.00	2	U			56	J			**380**	U			**350**	U			**420**	U	3	U	2	U			**230**	J
2-Methylnapthalene	NS	NS					49	J			380	UJ			350	UJ			420	UJ							140	J
1-1-Biphenyl	3,000.00	23,000.00					380	U			380	U			350	U			420	U							52	J
Acenaphthalene	NS	NS					380	U			380	U			350	U			420	U							410	
Acenaphthene	3,700.00	38,000.00					380	UJ			380	U			350	U			420	U							130	J
Dibenzofuran	150.00	1,600.00					40	J			**380**	U			**350**	U			**420**	U							**240**	J
Diethylephthalate	49,000.00	150,000.00					74	J			380	U			350	U			420	U							370	U
Fluorene	2,600.00	33,000.00					58	J			380	U			350	U			420	U							510	
Phenanthrene	NS	NS					570				93	J			320	J			420	U							7,200	D
Anthracene	22,000.00	100,000.00					110	J			380	U			43	J			420	U							740	
Carbazole	24.00	86.00					**68**	J			**380**	U			**350**	U			**420**	U							**390**	
Di-n-butylphthalate	6,100.00	62,000.00					160	J			380	U			70	J			420	U							290	J
Fluoranthrene	2,300.00	30,000.00					690				64	J			420				420	U							**7,400**	D
Pyrene	2,300.00	54,000.00					1,100	J			74	J			420				420	U							**6,700**	D
Butylbenzylphthalate	12,000.00	100,000.00					380	U							350	U											130	J
Benzo(a)anthracene	0.62	2.90					**310**	J			**39**	J			**220**	J			**420**	U							**2,300**	
Chrysene	62.00	290.00					**460**				51	J			**290**	J			**420**	U							**2,600**	
(Bis(2-ethylhexyl)phthalate	35.00	120.00					**270**	J			**330**	J			**39**	J			**420**	U							**94**	J
Benzo(b)fluoranthene	0.62	2.90					**620**				**380**	U			**300**	J			**420**	U							**2,300**	
Benzo(k)fluoranthene	6.20	29.00					**470**				**380**	U			**260**	J			**420**	U							**2,200**	
Benzo(a)pyrene	0.06	0.29					**300**	J			**380**	U			**130**	J			**420**	U							**1,700**	
Indeno(1,2,3-cd)pyrene	1.00	2.90					**240**	J			**380**	U			**120**	J			**420**	U							**1,600**	
Dibenzo(a,h)anthracene	0.06	0.29					**74**	J			**380**	U			**42**	J			**420**	U							**470**	
Benzo(g,h,i)perylene	NS	NS					380	U			380	U			75	J			420	U							950	

Soil Boring	EPA Region IX	EPA Region IX	S-6	Q	S-6	Q	S-6	Q	S-6	Q	S-7	Q	S-7	Q	S-7	Q	S-8	Q	S-8	Q	S-8	Q	S-9	Q	S-9	Q	S-9	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	2 to 4		4 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 10		1 to 2		2 to 4		4 to 6	
Sample Date			11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/21/2002		11/21/2002		11/21/2002								11/20/2002		11/20/2002		11/20/2002	
Average Depth	Residential Soil	Industrial Soils	3.0		7.0		11.0		16.0		1.5		3.0		7.0		1.5		3		7		1.5		3.0		5	
SVOCs																												
Acetophenone	NS	NS			350	U						R		R	410	U												
Naphthalene	56.00	190.00			**350**	U	2	U	2	U	**64**	J	**64**	J	**410**	U												
2-Methylnapthalene	NS	NS			350	UJ						R		R	410	U												
1-1-Biphenyl	3,000.00	23,000.00			350	U						R		R	410	U												
Acenaphthalene	NS	NS			350	U						R		R	410	U												
Acenaphthene	3,700.00	38,000.00			350	U					55	J	55	J	410	U												
Dibenzofuran	150.00	1,600.00			**350**	U					44	J	44	J	**410**	U												
Diethylephthalate	49,000.00	150,000.00			100	J						R		R	410	U												
Fluorene	2,600.00	33,000.00			350	U					54	J	54	J	410	U												
Phenanthrene	NS	NS			64	J					760	J	760	J	63	J												
Anthracene	22,000.00	100,000.00			350	U					120	J	120	J	410	U												
Carbazole	24.00	86.00			**350**	U					**68**	J	**68**	J	**410**	U												
Di-n-butylphthalate	6,100.00	62,000.00			350	U					56	J	56	J	410	U												
Fluoranthrene	2,300.00	30,000.00			86	J					1,200	J	1,200	J	94	J												
Pyrene	2,300.00	54,000.00			87	J					860		860		100	J												
Butylbenzylphthalate	12,000.00	100,000.00										R		R														
Benzo(a)anthracene	0.62	2.90			**46**	J					**480**		**480**		**54**	J												
Chrysene	62.00	290.00			53	J					**610**		**610**		**76**	J												
(Bis(2-ethylhexyl)phthalate	35.00	120.00			**130**	J					**130**	J	**130**	J	**220**	J												
Benzo(b)fluoranthene	0.62	2.90			**72**	J					**670**	J	**670**	J	**100**	J												
Benzo(k)fluoranthene	6.20	29.00			**54**	J					**550**	J	**550**	J	**82**	J												
Benzo(a)pyrene	0.06	0.29			**43**	J					**370**	J	**370**	J	**51**	J												
Indeno(1,2,3-cd)pyrene	1.00	2.90			**48**	J					**240**	J	**240**	J	**56**	J												
Dibenzo(a,h)anthracene	0.06	0.29			**350**	U					**78**	J	**78**	J	**410**	J												
Benzo(g,h,i)perylene	NS	NS			79	J					140	J	140	J	47	J												

Soil Boring	EPA Region IX	EPA Region IX	ME-1	Q	ME-2	Q	ME-3	Q	ME-4	Q	ME-5	Q	ME-6	Q	ME-7	Q	ME-8	Q	ME-9	Q	ME-10	Q	S-1	Q	S-1	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	1.8 to 4.0		1 to 4		1 to 4		1.5 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1 to 4		1.5 to 4		1 to 2		1 to 4	
Sample Date			12/11/2001		12/11/2001		12/12/2001		12/11/2001		12/12/2001		12/12/2001		12/12/2001		12/10/2001		12/13/2001		12/12/2001		11/19/2002		11/19/2002	
Average Depth	Residential Soil	Industrial Soils	2.9		3		3		2.75		3		3		3		3		3		2.75		1.5		2.5	

Soil Boring	EPA Region IX	EPA Region IX	S-9	Q	S-9	Q	S-9	Q	S-9	Q	S-10	Q	S-10	Q	S-10	Q	T-2	Q	T-3	Q	E-1	Q	E-1	Q	E-1	Q	E-2	Q
Depth Interval	Direct Exposure PRGs	Direct Exposure PRGs	6 to 8		8 to 10		Discrete		Discrete		1 to 2		2 to 4		4 to 10		1 to 4		1 to 4		1 to 2		2 to 4		6 to 10		1 to 2	
Sample Date			11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/19/2002		11/19/2002		Nov-02		Nov-02		Nov-02		Nov-02	
Average Depth	Residential Soil	Industrial Soils	7		9		11.0		16.0		1.5		3.0		7		2.5		2.5		1.5		3		8		1.5	
SVOCs																												
Acetophenone	NS	NS															360	U	400	U								
Naphthalene	56.00	190.00					2	U	3	U							**360**	UJ	**400**	U								
2-Methylnapthalene	NS	NS															360	U	400	UJ								
1-1-Biphenyl	3,000.00	23,000.00															360	U	400	U								
Acenaphthalene	NS	NS															360	U	100	J								
Acenaphthene	3,700.00	38,000.00															360	U	400	U								
Dibenzofuran	150.00	1,600.00															**360**	U	**400**	U								
Diethylephthalate	49,000.00	150,000.00															360	U	400	U								
Fluorene	2,600.00	33,000.00															360	U	400	U								
Phenanthrene	NS	NS															120	J	550									
Anthracene	22,000.00	100,000.00															360	U	400	U								
Carbazole	24.00	86.00															**360**	U	**400**	U								
Di-n-butylphthalate	6,100.00	62,000.00															490		400	U								
Fluoranthrene	2,300.00	30,000.00															220	J	1,500									
Pyrene	2,300.00	54,000.00															260	J	1,700									
Butylbenzylphthalate	12,000.00	100,000.00															360	U	400	U								
Benzo(a)anthracene	0.62	2.90															**120**	J	**260**	J								
Chrysene	62.00	290.00															**180**	J	**850**									
(Bis(2-ethylhexyl)phthalate	35.00	120.00															**45**	J	**400**									
Benzo(b)fluoranthene	0.62	2.90															**210**	J	**980**									
Benzo(k)fluoranthene	6.20	29.00															**180**	J	**810**									
Benzo(a)pyrene	0.06	0.29															**99**	J	**470**									
Indeno(1,2,3-cd)pyrene	1.00	2.90															**100**	J	**410**									
Dibenzo(a,h)anthracene	0.06	0.29															**360**	U	**84**	J								
Benzo(g,h,i)perylene	NS	NS															130	J	210	J								

APPENDIX B
FIGURES

LEGEND

- PROPERTY LINE
- 2' x 6' CONCRETE BARRIER
- UTILITY POLE
- STONE RETAINING WALL
- WOOD GAURD POSTS (NO RAIL)
- WOOD GAURD POST W/ RAIL
- CENTERLINE OF RAIL ROAD TRACKS
- APPROXIMATE SEWER LINE LOCATION
- APPROXIMATE WATER LINE LOCATION
- APPROXIMATE DRAINAGE LINE LOCATION
- DECEMBER 2002 BORING LOCATIONS
- DECEMBER 2002 EXTENDED BORING LOCATIONS
- WELL LOCATIONS (ME-WELLS INSTALLED 2001, MW-100 SERIES WELLS INSTALLED APRIL 2006
- DESTROYED MONITORING WELL
- NOVEMBER 2001 BORING LOCATIONS

N

CAPITAL MOBIL/
TEXACO PROPERTY

M.H. #26A

CAPITAL PLAZA HOTEL
AND PROPERTY

(ADDITIONAL PARKING ALONG TRACKS)

STATE OF VERMONT

WASHINGTON COUNTY RAILROAD

FORMER AUTO SERVICE
AND REPAIR SHOP AREA

TAYLOR STREET

36" BRICK

25" FIELD

OFFICE TRAILER

GRAVEL\RECYCLED ASPHALT
PARKING LOT

FORMER CAR HOUSE,
STORAGE BUILDING,
AND JUNK PROCESSING

FORMER SCRAP IRON
YARD AREA

BRIDGE

APPROXIMATE LOCATION OF
FORMER RAILROAD
TOOL HOUSE

NORTH BRANCH
WINOOSKI RIVER

APPROXIMATE LOCATION OF REPORTED AST (REMOVED)

LOCATION OF BURIED BUILDING FOUNDATION

APPROXIMATE LOCATION OF
FORMER GASOLINE UST (REMOVED)

TAYLOR STREET BRIDGE

WINOOSKI RIVER

UP 00991
UP 00998
UP 08776
UP 00992
UP 0999

ME-1 ME-2 ME-3 ME-4 ME-5 ME-6 ME-7 ME-8 – DESTROYED ME-9 ME-10A ME-10B ME-11 ME-12

MW-103 MW-B (DESTROYED) MW-A MW-A/S-2 MW-B MW-C MW-C/S MW-D/S-9 MW-101 MW-102

SB1 SB2 SB3 SB4 SB5

T-1/S-1 T-2 T-3 S-8 FINAL

E-1 E-2 E-3 E-4 E-5 E-6 E-7 E-8 E-9 E-10 E-11 E-12 E-13 E-14 E-15 S-3 S-4 S-5 S-7 S-10

REFERENCES:
BOUNDARY AND TOPOGRAPHIC SURVEY- CHASE AND CHASE - FEBRUARY, 1996
SOIL SAMPLING AND MONITORING WELL LOCATIONS - METCALF AND EDDY - 2001 - 2002; STONE ENVIRONMENTAL INC. - 2006.

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

STONE ENVIRONMENTAL INC
535 Stone Cutters Way
Montpelier, Vermont
05602 USA
Phone / 802.229.4541
Fax / 802.229.5417
Web Site / www.stone-env.com

FIGURE 1 - MONITORING WELL AND SOIL BORING LOCATION MAP

CARR LOT - 2006

MONTPELIER, VERMONT

SCALE: 1" = 40'	DTV	10/26/06		

Q:\Proj-06\1752-RV\Data\GIS\Data\Wetcalf Eddy Docs\Carr.dwg 05-04-06 mm

LEGEND

- PROPERTY LINE
- 2' x 6' CONCRETE BARRIER
- UTILITY POLE
- STONE RETAINING WALL
- WOOD GUARD POSTS (NO RAIL)
- WOOD GUARD POSTS W/ RAIL
- CENTERLINE OF RAIL ROAD TRACKS
- APPROXIMATE SEWER LINE LOCATION
- APPROXIMATE WATER LINE LOCATION
- APPROXIMATE DRAINAGE LINE LOCATION
- DECEMBER 2002 BORING LOCATIONS
- DECEMBER 2002 EXTENDED BORING LOCATIONS
- WELL LOCATIONS (ME-WELLS INSTALLED 2001, MW-100 SERIES WELLS INSTALLED APRIL 2006)
- DESTROYED MONITORING WELL
- NOVEMBER 2001 BORING LOCATIONS
- 84.2' EQUIPOTENTIAL GROUNDWATER CONTOUR
- 84.64' MEASURED GROUNDWATER ELEVATION

N

CAPITAL MOBIL/
TEXACO PROPERTY

M.H. #26A

CAPITAL PLAZA HOTEL
AND PROPERTY

(ADDITIONAL PARKING ALONG TRACKS)

FORMER AUTO SERVICE
AND REPAIR SHOP AREA

STATE OF VERMONT

WASHINGTON COUNTY RAILROAD

TAYLOR STREET

36" BRICK

25' FIELD

8"

6"

4"

84.6'

84.64' ME-1

84.5'

84.4'

MW-103

MW-B (DESTROYED)

84.43'

ME-4

84.3'

84.2'

84.1'

84.0'

OFFICE TRAILER

GRAVEL/RECYCLED ASPHALT
PARKING LOT

FORMER CAR HOUSE,
STORAGE BUILDING,
AND JUNK PROCESSING

MW-A/S-2

MW-101

84.44'

S-6 FINAL

ME-6

T-2

T-1/S-1

ME-2

83.97'

T-3

E-12

E-13 S-3 E-15

E-14

S-7

UP 00991

UP 00998

S-5

ME-5

SB1 SB2 E-7

S-4 E-6 E-10

SB3 E-8 E-9 E-11

SB4 SB5

MW-A

MW-B

ME-7

MW-C

MW-C/S-8

MW-102

84.49'

ME-10B

ME-10A

E-1

FORMER SCRAP IRON
YARD AREA

UP 0999

UP 00992

ME-8 – DESTROYED

MW-D/S-9

ME-11

ME-3

ME-9

UP 08776

E-4

E-5 S-10 E-3

E-2

ME-12

BRIDGE

APPROXIMATE LOCATION OF
FORMER RAILROAD
TOOL HOUSE

NORTH BRANCH
WINOOSKI RIVER

APPROXIMATE LOCATION OF REPORTED AST (REMOVED)

LOCATION OF BURIED BUILDING FOUNDATION

APPROXIMATE LOCATION OF
FORMER GASOLINE UST (REMOVED)

TAYLOR STREET BRIDGE

WINOOSKI RIVER

REFERENCES:
BOUNDARY AND TOPOGRAPHIC SURVEY- CHASE AND CHASE - FEBRUARY, 1996
SOIL SAMPLING AND MONITORING WELL LOCATIONS - METCALF AND EDDY - 2001 - 2002; STONE ENVIRONMENTAL INC. - 2006.

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

STONE ENVIRONMENTAL INC
535 Stone Cutters Way
Montpelier, Vermont
05602 USA
Phone / 802.229.4541
Fax / 802.229.5417
Web Site / www.stone-env.com

FIGURE 2 - GROUNDWATER CONTOUR MAP
CARR LOT - 2006
MONTPELIER, VERMONT

SCALE: 1" = 40'	DTV	10/26/06		

Q:\Proj-06\752-RV\Data\GIS\Data\Wetcalf Eddy Docs\Carr.dwg 05-04-06 anm

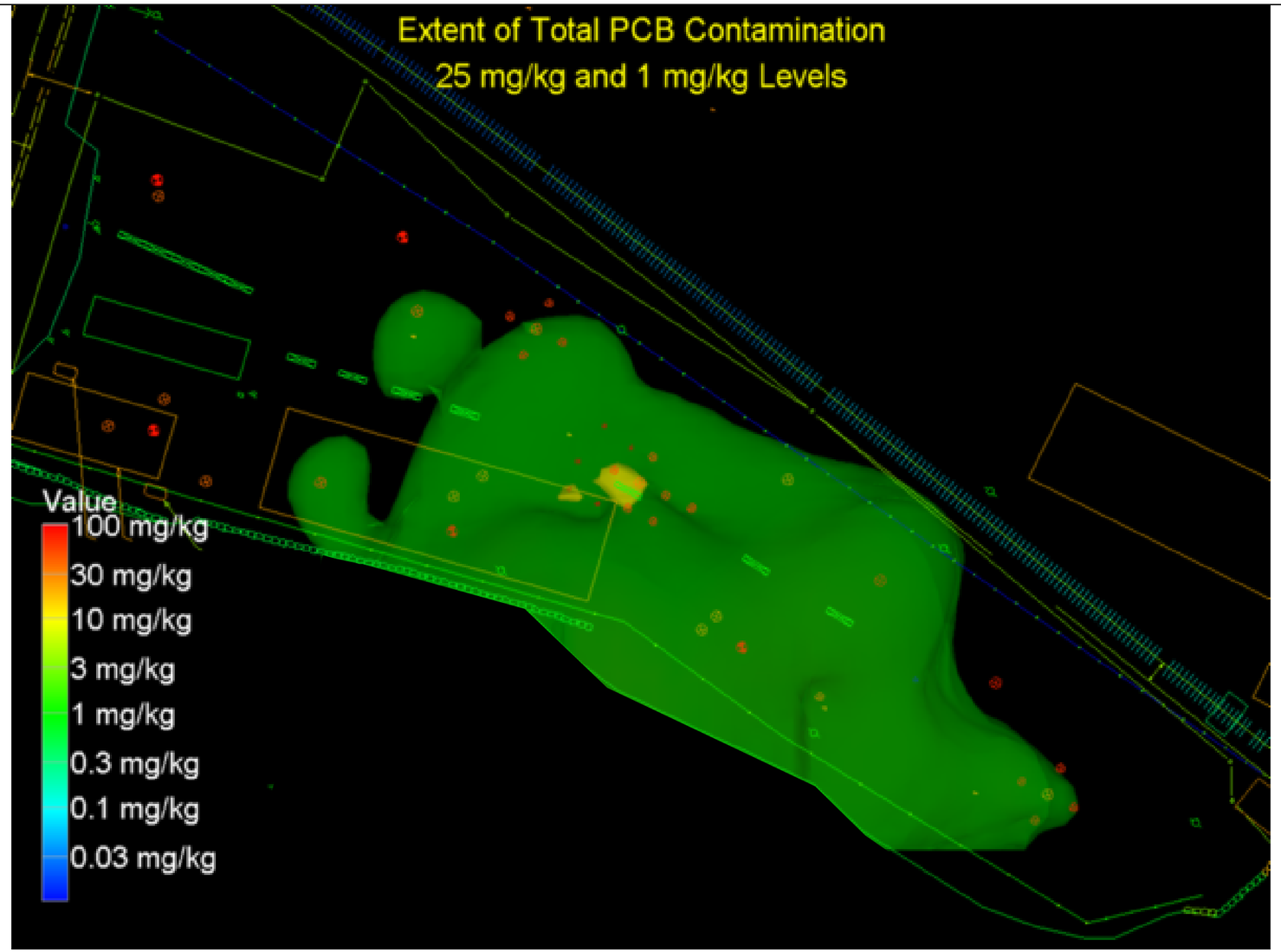


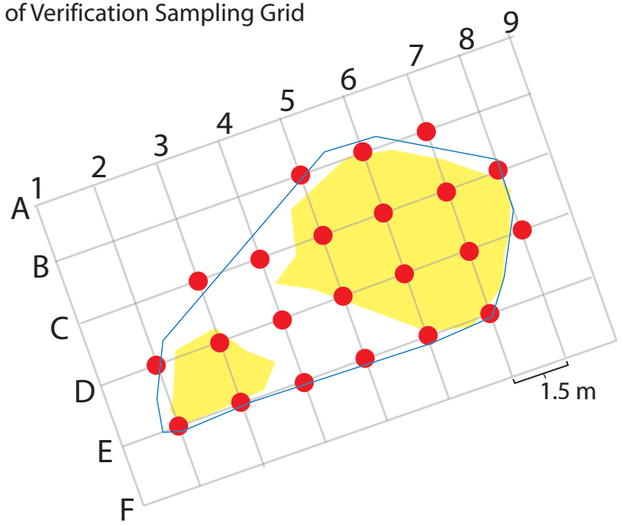
Figure 3: 3 Dimensional Environmental Visualization Software output for PCB contaminated soils remedial thresholds for the Carr Lot, Montpelier, Vermont. Soils in excess of the 25 ppm remedial theshold are shown in orange; areas with soils in excess of 1 ppm are shown in green.

Source: Site survey: 1996 Chase and Chase, Groundwater monitoring well and soil boring locations: 2001, 2002 Metcalf Eddy Targeted Brownfield Assessment, 2006 Stone Environmental Inc.

O:\Proj-06\1752-R Carr Lot Remediation\Reports\Draft\Figure 3 EVS Output.doc

STONE ENVIRONMENTAL INC

Detail of Verification Sampling Grid



LEGEND

- PROPERTY LINE
- 2' x 6' CONCRETE BARRIER
- UTILITY POLE
- STONE RETAINING WALL
- WOOD GAURD POSTS (NO RAIL)
- WOOD GAURD POST W/ RAIL
- CENTERLINE OF RAIL ROAD TRACKS
- APPROXIMATE SEWER LINE LOCATION
- APPROXIMATE WATER LINE LOCATION
- APPROXIMATE DRAINAGE LINE LOCATION
- DECEMBER 2002 BORING LOCATIONS
- DECEMBER 2002 EXTENDED BORING LOCATIONS
- WELL LOCATIONS (ME-WELLS INSTALLED 2001, MW-100 SERIES WELLS INSTALLED APRIL 2006
- DESTROYED MONITORING WELL
- NOVEMBER 2001 BORING LOCATIONS
- AREA OF EXCAVATION
- EXTENT OF SOILS WITH PCBs GREATER THAN 25 mg/Kg
- CLEANUP VERIFICATION SAMPLE LOCATION
- 1.5 m (4.9') SAMPLE GRID

N

CAPITAL MOBIL/
TEXACO PROPERTY

M.H. #26A

TAYLOR STREET

36" BRICK

25' HELD

FORMER AUTO SERVICE
AND REPAIR SHOP AREA

WASHINGTON COUNTY RAILROAD

UP 00998

BRIDGE

APPROXIMATE LOCATION OF
FORMER RAILROAD
TOOL HOUSE

UP 08776

NORTH BRANCH
WINOOSKI RIVER

ME-1
ME-2
ME-3
ME-4
ME-5
ME-6
ME-7
ME-8 – DESTROYED
ME-9
ME-10A
ME-10B
ME-11
ME-12

MW-103
MW-B (DESTROYED)
MW-A
MW-A/S-2
MW-101
MW-102
MW-C
MW-C/S-1
MW-D/S-9

SB1
SB2
SB3
SB4
SB5

E-1
E-2
E-3
E-4
E-5
E-6
E-7
E-8
E-9
E-10
E-11
E-12
E-13
E-14
E-15

S-3
S-4
S-5
S-7
S-8 FINAL
S-10

T-1/S-1
T-2
T-3

UP 00992
UP 0999

GRAVEL\RECYCLED ASPHALT
PARKING LOT

OFFICE TRAILER

FORMER CAR HOUSE,
STORAGE BUILDING,
AND JUNK PROCESSING

FORMER SCRAP IRON
YARD AREA

APPROXIMATE LOCATION OF REPORTED AST (REMOVED)

LOCATION OF BURIED BUILDING FOUNDATION

APPROXIMATE LOCATION OF
FORMER GASOLINE UST (REMOVED)

TAYLOR STREET BRIDGE

WINOOSKI RIVER

REFERENCES:
BOUNDARY AND TOPOGRAPHIC SURVEY- CHASE AND CHASE - FEBRUARY, 1996
SOIL SAMPLING AND MONITORING WELL LOCATIONS - METCALF AND EDDY - 2001 - 2002; STONE ENVIRONMENTAL INC. - 2006.

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)
1 inch = 40 ft.

STONE ENVIRONMENTAL INC
535 Stone Cutters Way
Montpelier, Vermont
05602 USA
Phone / 802.229.4541
Fax / 802.229.5417
Web Site / www.stone-env.com

FIGURE 4 - CLEANUP VERIFICATION SAMPLE LOCATIONS

CARR LOT - 2006

MONTPELIER, VERMONT

SCALE: 1" = 40'	DTV	10/26/06		

G:\Proj-06\752--RI\Data\GIS\Data\Metcalf Eddy Docs\Carr.dwg 05-04-06 anm

FIGURE NO. MW-101
WELL NO. MW-101
CARR LOT, MONTPELIER, VT

Date Drilled: 4/21/06
Logged by: Dan Voisin

SOURCE: Stone field notes, 2006
DATE/INITIALS: 5/4/06, anm
O:\Proj-06\1752-R Carr Lot Remediation\Data\Logplot

STONE ENVIRONMENTAL INC

	WATER LEVEL	DEPTH (Feet)	WELL CONSTRUCTION	BACKFILL MATERIAL
		0	**Steel Protective Well Box**	*Concrete*
			1-inch Diameter PVC Well Casing	*Bentonite Grout*
		-5		
		-10		
		-15		*Bentonite Pellets*
				#2 Silica Sand Pack
			10-slot Well Screen	
		-20		

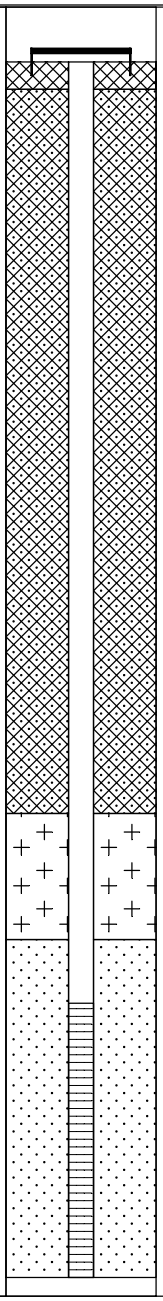


FIGURE NO. MW-102
WELL NO. MW-102
CARR LOT, MONTPELIER, VT

Date Drilled: 4/21/06
Logged by: Dan Voisin

SOURCE: Stone field notes, 2006
DATE/INITIALS: 5/4/06, anm
O:\Proj-06\1752-R Carr Lot Remediation\Data\Logplot

STONE ENVIRONMENTAL INC

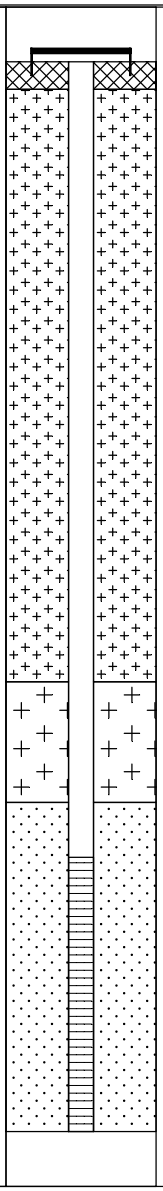
	WATER LEVEL	DEPTH (Feet)	WELL CONSTRUCTION		BACKFILL MATERIAL
		0	**Steel Protective Well Box**		*Concrete*
			1-inch Diameter PVC Well Casing		*Granular Bentonite*
		-5			
		-10			*Bentonite Pellets*
					#2 Silica Sand Pack
		-15	**10-slot Well Screen**		
		-20			

FIGURE NO. MW-103
WELL NO. MW-103
CARR LOT, MONTPELIER, VT

Date Drilled: 4/21/06
Logged by: Dan Voisin

SOURCE: Stone field notes, 2006
DATE/INITIALS: 5/4/06, anm
O:\Proj-06\1752-R Carr Lot Remediation\Data\Logplot

STONE ENVIRONMENTAL INC

	WATER LEVEL	DEPTH (Feet)	WELL CONSTRUCTION	BACKFILL MATERIAL
		0	**Steel Protective Well Box**	*Concrete*
			1-inch Diameter PVC Well Casing	*Granular Bentonite*
		-5		
		-10		*Bentonite Pellets*
				Mixed Sand Pack
		-15	**10-slot Well Screen**	
		-20		

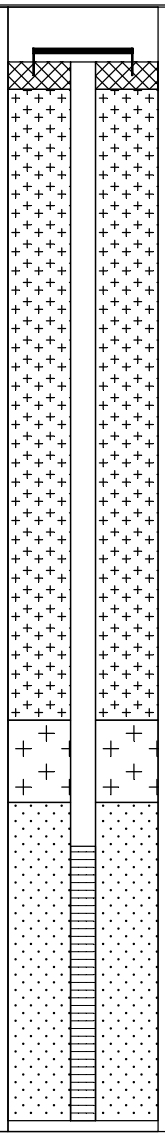


FIGURE NO.

BORING NO. SB1

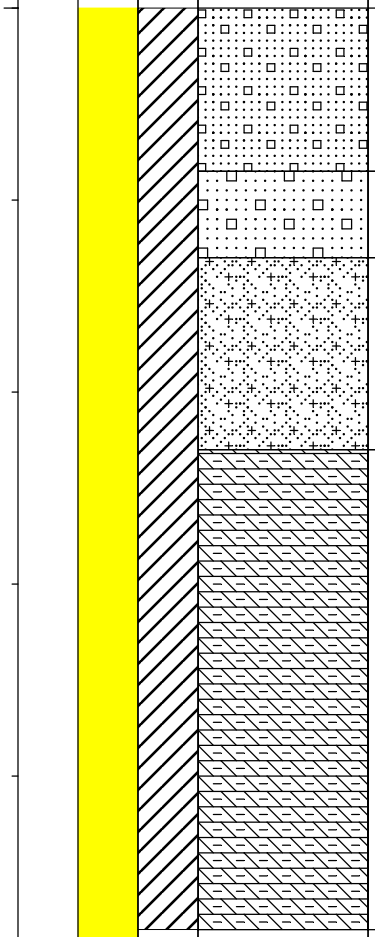
CARR LOT, MONTPELIER, VERMONT

Date Drilled: 8/23/3006

Logged by: Dan Voisin

SOURCE: Stone field notes, August 2006
DATE/INITIALS: anm, 10/31/2006
PATH: O:\Proj-06\1752-R Carr Lot\Data\Logplot\SB1.dat

STONE ENVIRONMENTAL INC



DEPTH (Feet)	WATER LEVEL	SAMPLE INTERVAL	RECOVERY	LITHOLOGY	GENERAL LITHOLOGY AND COMMENTS (based on field notes, geoscientist interpretation, and laboratory results)
0					GRAVELLY SAND: Gray; dry.
					SANDY GRAVEL: Dark brown; dry; fill.
					FILL: Dark gray to black cinders; dry; trace sand.
					SILTY CLAY: Olive gray; dry; trace coarse sand; lens of cinders (0.5") at 3.2 feet.
-5					

FIGURE NO.

BORING NO. SB2

CARR LOT, MONTPELIER, VERMONT

Date Drilled: 8/23/3006

Logged by: Dan Voisin

SOURCE: Stone field notes, August 2006
DATE/INITIALS: anm, 10/31/2006
PATH: O:\Proj-06\1752-R Carr Lot\Data\Logplot\SB2.dat

STONE ENVIRONMENTAL INC

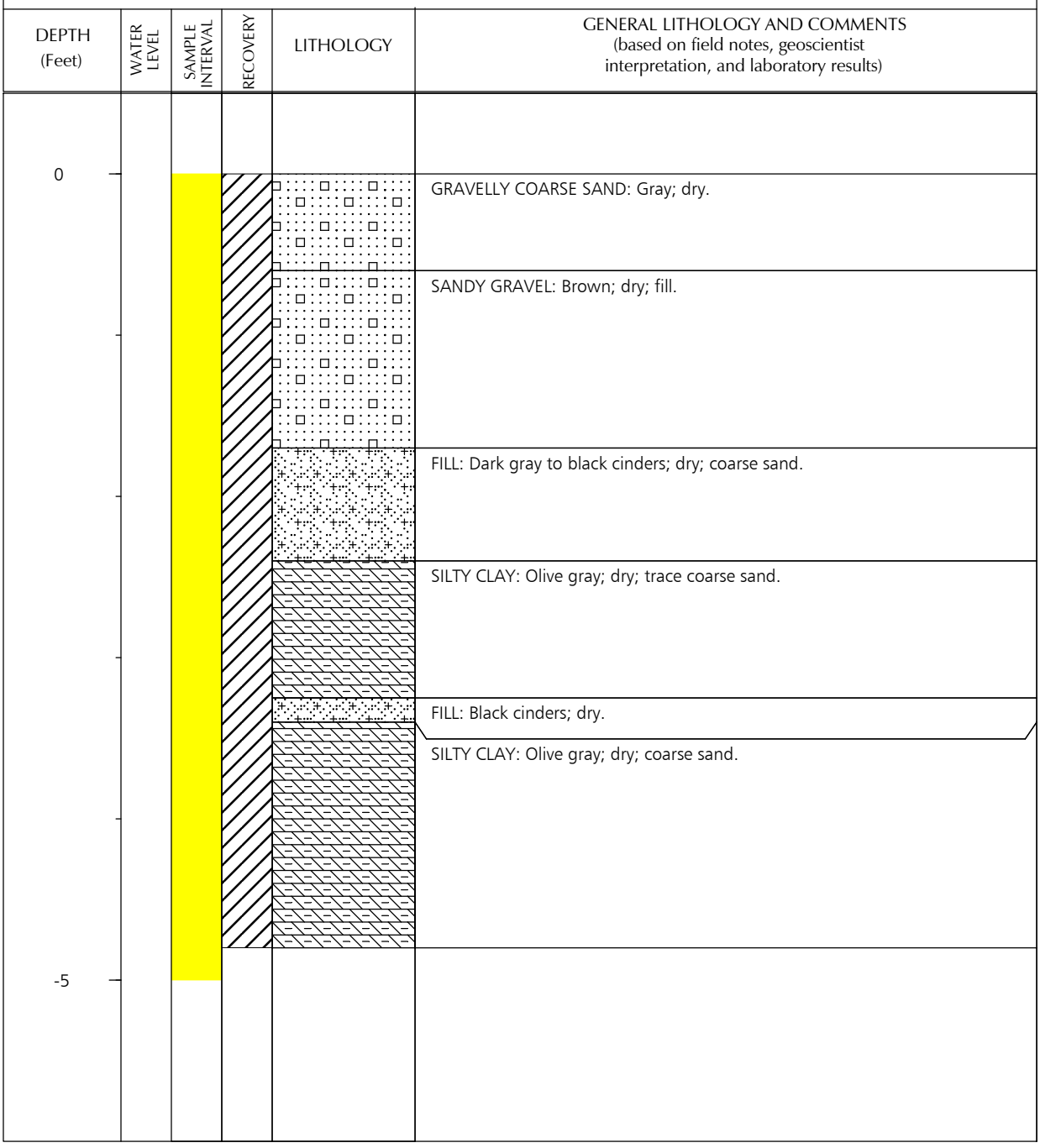


FIGURE NO.

BORING NO. SB3

CARR LOT, MONTPELIER, VERMONT

Date Drilled: 8/23/3006

Logged by: Dan Voisin

SOURCE: Stone field notes, August 2006
DATE/INITIALS: anm, 10/31/2006
PATH: O:\Proj-06\1752-R Carr Lot\Data\Logplot\SB3.dat

STONE ENVIRONMENTAL INC

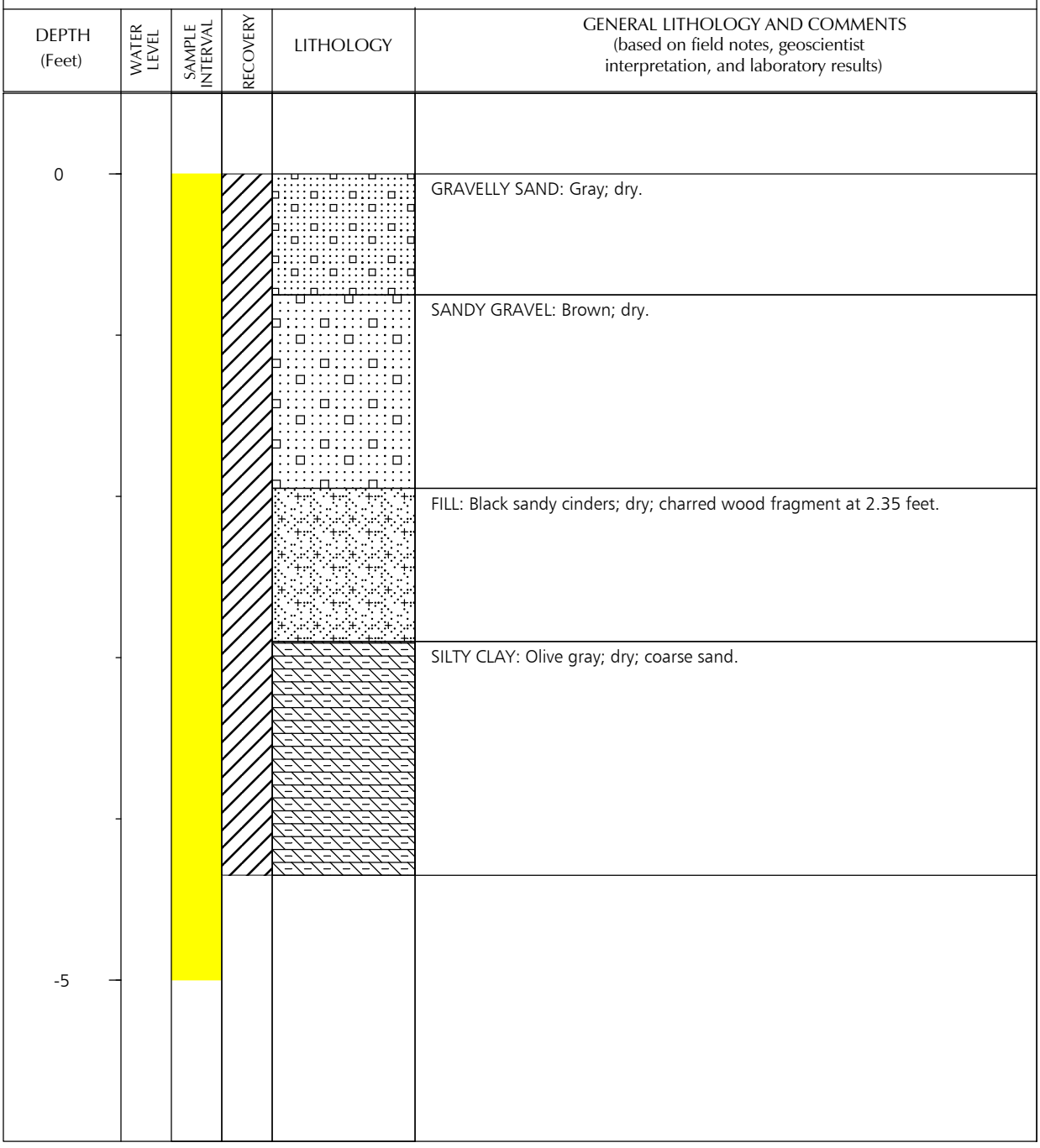


FIGURE NO.

BORING NO. SB4

CARR LOT, MONTPELIER, VERMONT

Date Drilled: 8/23/3006

Logged by: Dan Voisin

SOURCE: Stone field notes, August 2006
DATE/INITIALS: anm, 10/31/2006
PATH: O:\Proj-06\1752-R Carr Lot\Data\Logplot\SB4.dat

STONE ENVIRONMENTAL INC

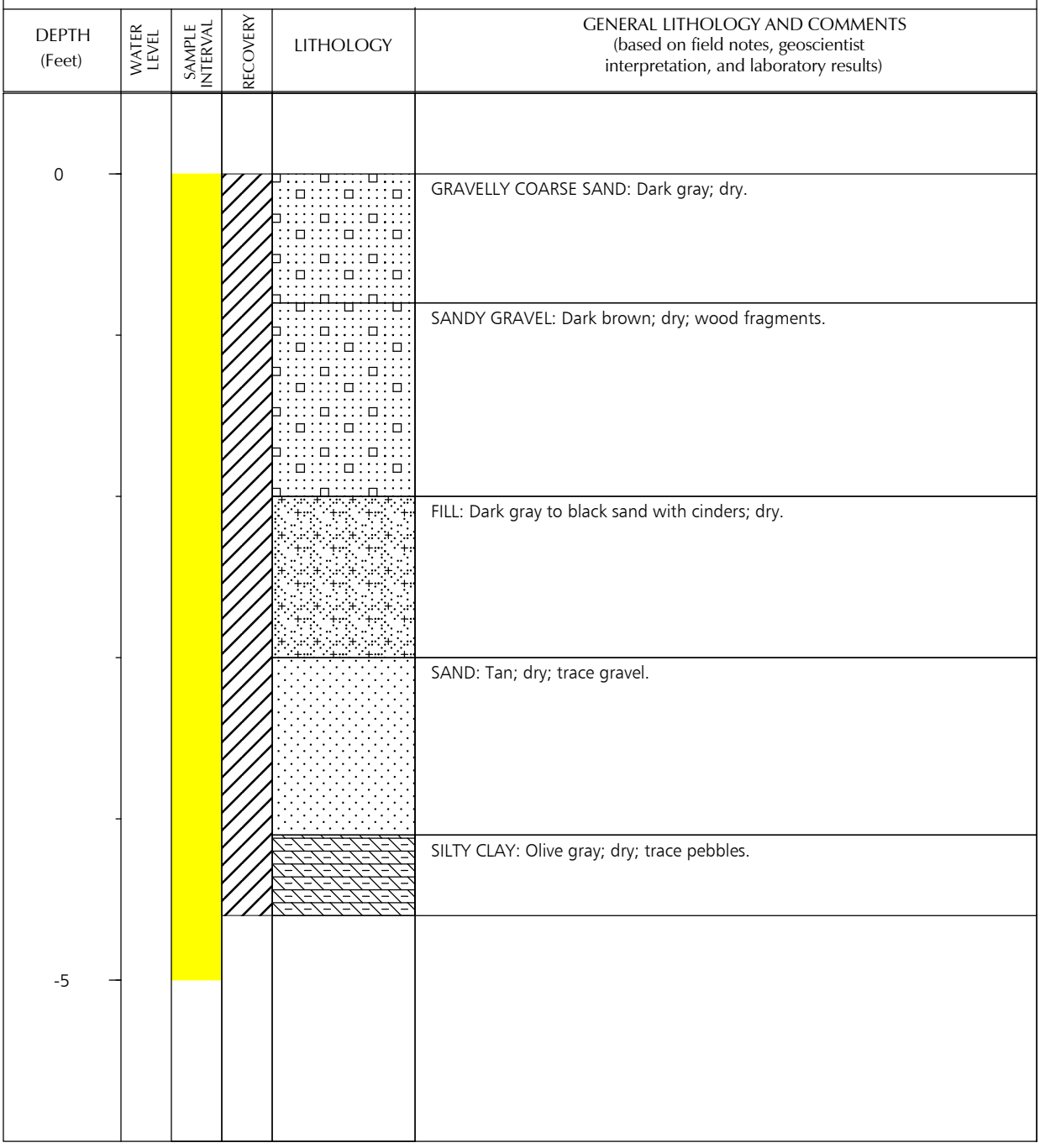


FIGURE NO.

BORING NO. SB5

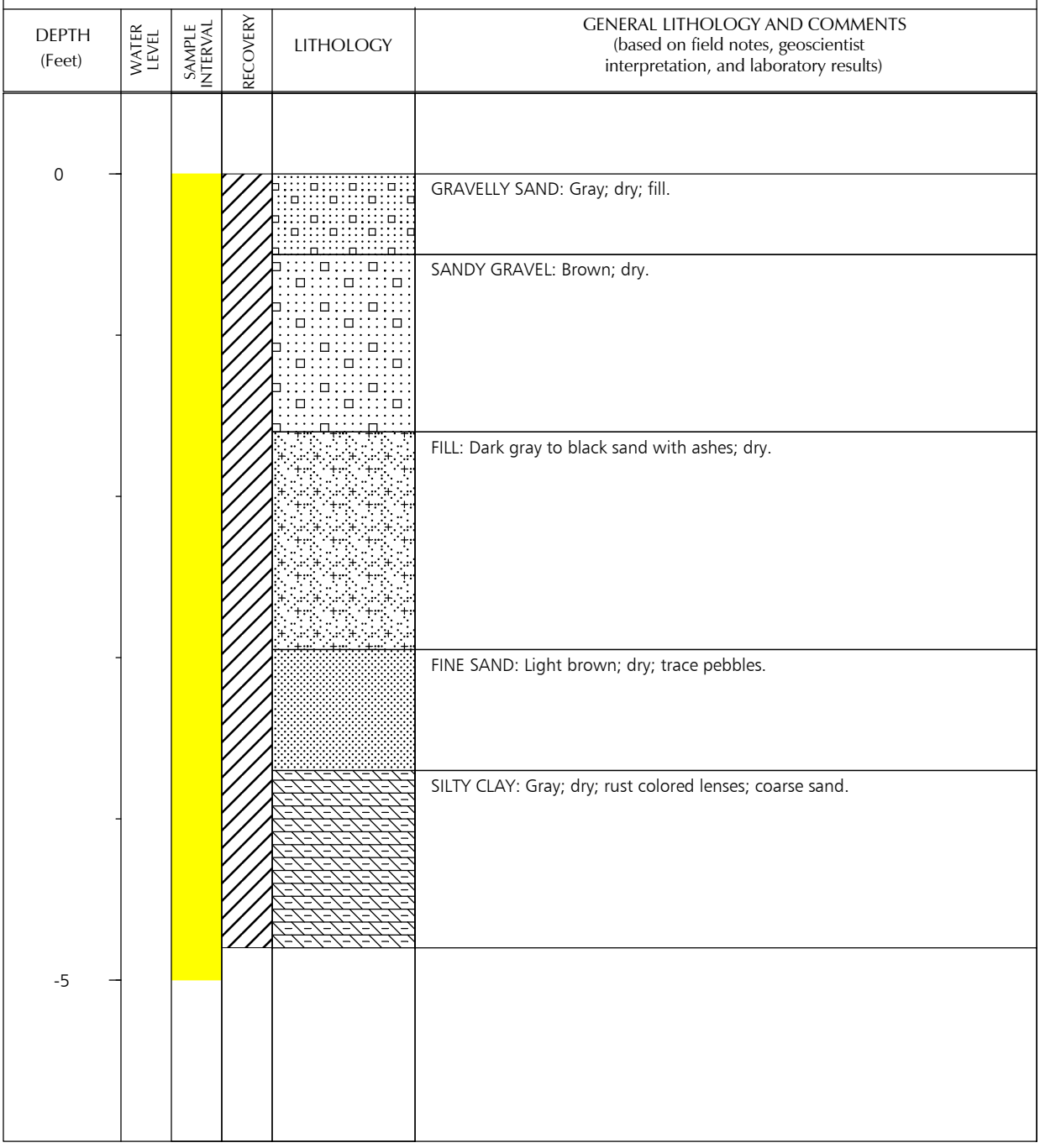
CARR LOT, MONTPELIER, VERMONT

Date Drilled: 8/23/3006

Logged by: Dan Voisin

SOURCE: Stone field notes, August 2006
DATE/INITIALS: anm, 10/31/2006
PATH: O:\Proj-06\1752-R Carr Lot\Data\Logplot\SB5.dat

STONE ENVIRONMENTAL INC



APPENDIX C
ANALYTICAL RESULTS

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier, VT 05602
Attn: Dan Voisin

PROJECT: Carr Lot Remed/061752-R
ORDER ID: 44745
RECEIVE DATE: May 8, 2006
REPORT DATE: May 17, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
REPORT DATE: May 17, 2006

ORDER ID: 44745
DATE RECEIVED: May 8, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 273571 | Site: ME 1 | Date Sampled: May 5, 2006 | Time: 2:40 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1221	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1232	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1242	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1248	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1254	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1260	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1268	< 0.5	ug/L	SW 8082	5/11/06
Surrogate 1	93.	%	SW 8082	5/11/06

Ref. Number: 273572 | Site: ME 2 | Date Sampled: May 5, 2006 | Time: 4:55 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1221	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1232	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1242	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1248	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1254	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1260	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1268	< 0.5	ug/L	SW 8082	5/11/06
Surrogate 1	94.	%	SW 8082	5/11/06

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
REPORT DATE: May 17, 2006

ORDER ID: 44745
DATE RECEIVED: May 8, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 273573 | Site: MW 101 | Date Sampled: May 5, 2006 | Time: 6:28 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1221	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1232	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1242	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1248	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1254	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1260	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1268	< 0.5	ug/L	SW 8082	5/11/06
Surrogate 1	101.	%	SW 8082	5/11/06

Ref. Number: 273574 | Site: MW 102 | Date Sampled: May 5, 2006 | Time: 10:17 AM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1221	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1232	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1242	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1248	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1254	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1260	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1268	< 0.5	ug/L	SW 8082	5/11/06
Surrogate 1	98.	%	SW 8082	5/11/06

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
REPORT DATE: May 17, 2006

ORDER ID: 44745
DATE RECEIVED: May 8, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 273575 | Site: MW 103 | Date Sampled: May 5, 2006 | Time: 11:54 AM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1221	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1232	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1242	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1248	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1254	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1260	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1268	< 0.5	ug/L	SW 8082	5/11/06
Surrogate 1	93.	%	SW 8082	5/11/06

Ref. Number: 273576 | Site: Duplicate | Date Sampled: May 5, 2006 | Time: 6:28 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1221	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1232	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1242	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1248	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1254	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1260	< 0.5	ug/L	SW 8082	5/11/06
Arochlor-1268	< 0.5	ug/L	SW 8082	5/11/06
Surrogate 1	103.	%	SW 8082	5/11/06

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier, VT 05602
Attn: Dan Voisin

PROJECT: Carr Lot Remed/061752-R
ORDER ID: 44745
RECEIVE DATE: May 8, 2006
REPORT DATE: May 23, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

MAY 24

enclosures

ACCREDITED IN ACCORDANCE WITH nelac ELAP 11263

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
SITE: ME 1
DATE RECEIVED: May 8, 2006
REPORT DATE: May 23, 2006
ANALYSIS DATE: May 19, 2006

ORDER ID: 44745
REFERENCE NUMBER: 273571
DATE SAMPLED: May 5, 2006
TIME SAMPLED: 2:45 PM
SAMPLER: DV
ANALYST: 725

Parameter	Result ug/L
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 5.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 5.0
Chloroform	< 1.0
Chloromethane	< 3.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-Chloropropane	< 2.0
1,2-Dibromoethane	< 2.0
Dibromomethane	< 2.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	< 5.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	9.3
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0

Parameter	Result ug/L
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 2.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene Chloride	< 5.0
MTBE	< 2.0
Naphthalene	< 2.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	2.4
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 2.0
1,2,4-Trichlorobenzene	< 2.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	3.4
Trichlorofluoromethane	< 2.0
1,2,3-Trichloropropane	< 2.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 2.0
Xylenes, Total	< 2.0
Surrogate 1	112.%
Surrogate 2	96.%
Surrogate 3	86.%
UIP's	0.

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
SITE: ME 2
DATE RECEIVED: May 8, 2006
REPORT DATE: May 23, 2006
ANALYSIS DATE: May 19, 2006

ORDER ID: 44745
REFERENCE NUMBER: 273572
DATE SAMPLED: May 5, 2006
TIME SAMPLED: 4:55 PM
SAMPLER: DV
ANALYST: 725

Parameter	Result ug/L
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 5.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 5.0
Chloroform	< 1.0
Chloromethane	< 3.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-Chloropropane	< 2.0
1,2-Dibromoethane	< 2.0
Dibromomethane	< 2.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	< 5.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	2.1
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0

Parameter	Result ug/L
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 2.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene Chloride	< 5.0
MTBE	< 2.0
Naphthalene	< 2.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	1.3
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 2.0
1,2,4-Trichlorobenzene	< 2.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	2.3
Trichlorofluoromethane	< 2.0
1,2,3-Trichloropropane	< 2.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 2.0
Xylenes, Total	< 2.0
Surrogate 1	102.%
Surrogate 2	93.%
Surrogate 3	84.%
UIP's	0.

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
SITE: MW 101
DATE RECEIVED: May 8, 2006
REPORT DATE: May 23, 2006
ANALYSIS DATE: May 19, 2006

ORDER ID: 44745
REFERENCE NUMBER: 273573
DATE SAMPLED: May 5, 2006
TIME SAMPLED: 6:28 PM
SAMPLER: DV
ANALYST: 725

Parameter	Result ug/L
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 5.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 5.0
Chloroform	< 1.0
Chloromethane	< 3.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-Chloropropane	< 2.0
1,2-Dibromoethane	< 2.0
Dibromomethane	< 2.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	< 5.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	1.4
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0

Parameter	Result ug/L
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 2.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene Chloride	< 5.0
MTBE	< 2.0
Naphthalene	< 2.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 2.0
1,2,4-Trichlorobenzene	< 2.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 2.0
1,2,3-Trichloropropane	< 2.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 2.0
Xylenes, Total	< 2.0
Surrogate 1	108.%
Surrogate 2	94.%
Surrogate 3	86.%
UIP's	0.

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
SITE: MW 102
DATE RECEIVED: May 8, 2006
REPORT DATE: May 23, 2006
ANALYSIS DATE: May 19, 2006

ORDER ID: 44745
REFERENCE NUMBER: 273574
DATE SAMPLED: May 5, 2006
TIME SAMPLED: 10:17 AM
SAMPLER: DV
ANALYST: 725

Parameter	Result ug/L
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 5.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 5.0
Chloroform	< 1.0
Chloromethane	< 3.0
4-Chlorotoluene	< 1.0
2-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-Chloropropane	< 2.0
1,2-Dibromoethane	< 2.0
Dibromomethane	< 2.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	< 5.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	1.1
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0

Parameter	Result ug/L
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 2.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene Chloride	< 5.0
MTBE	< 2.0
Naphthalene	< 2.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 2.0
1,2,4-Trichlorobenzene	< 2.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 2.0
1,2,3-Trichloropropane	< 2.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 2.0
Xylenes, Total	< 2.0
Surrogate 1	106.%
Surrogate 2	94.%
Surrogate 3	78.%
UIP's	0.

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
SITE: MW 103
DATE RECEIVED: May 8, 2006
REPORT DATE: May 23, 2006
ANALYSIS DATE: May 19, 2006

ORDER ID: 44745
REFERENCE NUMBER: 273575
DATE SAMPLED: May 5, 2006
TIME SAMPLED: 11:54 AM
SAMPLER: DV
ANALYST: 725

Parameter	Result ug/L
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 5.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 5.0
Chloroform	< 1.0
Chloromethane	< 3.0
4-Chlorotoluene	< 1.0
2-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-Chloropropane	< 2.0
1,2-Dibromoethane	< 2.0
Dibromomethane	< 2.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	< 5.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	4.2
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0

Parameter	Result ug/L
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 2.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene Chloride	< 5.0
MTBE	< 2.0
Naphthalene	< 2.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	3.8
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 2.0
1,2,4-Trichlorobenzene	< 2.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	4.7
Trichlorofluoromethane	< 2.0
1,2,3-Trichloropropane	< 2.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 2.0
Xylenes, Total	< 2.0
Surrogate 1	105.%
Surrogate 2	94.%
Surrogate 3	104.%
UIP's	0.

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
SITE: Duplicate
DATE RECEIVED: May 8, 2006
REPORT DATE: May 23, 2006
ANALYSIS DATE: May 19, 2006

ORDER ID: 44745
REFERENCE NUMBER: 273576
DATE SAMPLED: May 5, 2006
TIME SAMPLED: 6:28 PM
SAMPLER: DV
ANALYST: 725

Parameter	Result ug/L
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 5.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 5.0
Chloroform	< 1.0
Chloromethane	< 3.0
4-Chlorotoluene	< 1.0
2-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-Chloropropane	< 2.0
1,2-Dibromoethane	< 2.0
Dibromomethane	< 2.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	< 5.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	1.1
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0

Parameter	Result ug/L
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 2.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene Chloride	< 5.0
MTBE	< 2.0
Naphthalene	< 2.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 2.0
1,2,4-Trichlorobenzene	< 2.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 2.0
1,2,3-Trichloropropane	< 2.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 2.0
Xylenes, Total	< 2.0
Surrogate 1	92.%
Surrogate 2	96.%
Surrogate 3	100.%
UIP's	0.

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier, VT 05602
Attn: Dan Voisin

PROJECT: Carr Lot Remed/061752-R
ORDER ID: 44745
RECEIVE DATE: May 8, 2006
REPORT DATE: June 2, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

JUN - 6 2006

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ACCREDITED IN ACCORDANCE WITH nelac ELAP 11263

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot Remed/061752-R
REPORT DATE: June 2, 2006

ORDER ID: 44745
DATE RECEIVED: May 8, 2006
SAMPLER: DV

Ref. Number: 273571 | Site: ME 1 | Date Sampled: May 5, 2006 | Time: 2:45 PM

Parameter	Result	Unit	Method	Analysis Date	Analyst
Total Iron	0.114	mg/L	EPA 200.7	6/1/06	912
Total Manganese	0.062	mg/L	EPA 200.7	6/1/06	912
Total Sodium	433.	mg/L	EPA 200.7	6/1/06	912

Ref. Number: 273572 | Site: ME 2 | Date Sampled: May 5, 2006 | Time: 4:55 PM

Parameter	Result	Unit	Method	Analysis Date	Analyst
Total Iron	0.043	mg/L	EPA 200.7	6/1/06	912
Total Manganese	0.896	mg/L	EPA 200.7	6/1/06	912
Total Sodium	525.	mg/L	EPA 200.7	6/1/06	912

Ref. Number: 273573 | Site: MW 101 | Date Sampled: May 5, 2006 | Time: 6:28 PM

Parameter	Result	Unit	Method	Analysis Date	Analyst
Total Iron	0.012	mg/L	EPA 200.7	6/1/06	912
Total Manganese	1.38	mg/L	EPA 200.7	6/1/06	912
Total Sodium	575.	mg/L	EPA 200.7	6/1/06	912

Ref. Number: 273574 | Site: MW 102 | Date Sampled: May 5, 2006 | Time: 10:17 AM

Parameter	Result	Unit	Method	Analysis Date	Analyst
Total Iron	< 0.010	mg/L	EPA 200.7	6/1/06	912
Total Manganese	0.531	mg/L	EPA 200.7	6/1/06	912
Total Sodium	288.	mg/L	EPA 200.7	6/1/06	912

ENDYNE, INC.
Laboratory Services
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

Ref. Number: 273575 | Site: MW 103 | Date Sampled: May 5, 2006 | Time: 11:54 AM

Parameter	Result	Unit	Method	Analysis Date	Analyst
Total Iron	0.012	mg/L	EPA 200.7	6/1/06	912
Total Manganese	0.123	mg/L	EPA 200.7	6/1/06	912
Total Sodium	395.	mg/L	EPA 200.7	6/1/06	912

Ref. Number: 273576 | Site: Duplicate | Date Sampled: May 5, 2006 | Time: 6:28 PM

Parameter	Result	Unit	Method	Analysis Date	Analyst
Total Iron	0.012	mg/L	EPA 200.7	6/1/06	912
Total Manganese	1.34	mg/L	EPA 200.7	6/1/06	912
Total Sodium	581.	mg/L	EPA 200.7	6/1/06	912

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

85368

Special Reporting Instructions:

Project Name:	Reporting Address:	Billing Address:
061752-R Carr Lot Remed.	Stone Env. Inc. 535 Stone Cutters Way	SAME
Endyne Order ID: (Lab Use Only) 44745 — ∞ -O, # -I, -S	Company: Stone Env. Montpelier VT 0560	Sampler Name:
	Contact Name/Phone #: Dan Voisin 229-1875	Phone #:

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW ME 1	GW	X		5/5/06 1450	4	2x40 1x125 1x1L		24, 29, 31	HCl, Na, Na	
	ME 2		X		5/5/06 1655	4	2x40 1x125 1x1L				
	MW 101		X		5/5/06 1828	4	2x40 1x125 1x1L				
	MW 102		X		5/5/06 1013	4	2x40 1x125 1x1L				
	MW 103		X		5/5/06 1154	4	2x40 1x125 1x1L				
	MW 101 Dup	GW	X		5/5/06 1828	4	2x40 1x125 1x1L				

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Amy Macellin	5/8/06 10:00AM	John Ball	5/8/06 11:15		

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA 8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	8082 PCBs
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)							33			
34	Other										

LAB USE ONLY
Delivery: Client
Temp: 3.5°C
Comment:

(White, Yellow - Laboratory / Pink - Client)

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier, VT 05602
Attn: Dan Voisin

PROJECT: Carr Lot/061752-R
ORDER ID: 47524
RECEIVE DATE: August 23, 2006
REPORT DATE: September 12, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

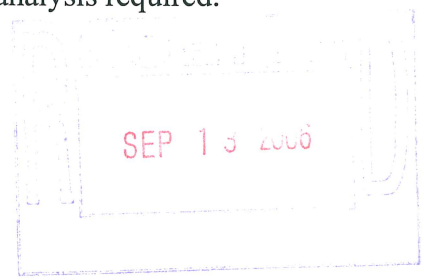
All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

IS indicates there was insufficient sample volume to perform analysis required.



Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

Enclosures

ACCREDITED IN ACCORDANCE WITH nelac ELAP 11263

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot/061752-R
REPORT September 12, 2006

ORDER ID: 47524
DATE RECEIVED: August 23, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 281153 Site: SB-1 2.0 Date Sampled: August 23, 2006 Time: 1:45 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 176.	ug/Kg, dry	SW 8082	9/8/2006
Arochlor-1221	< 176.	ug/Kg, dry	SW 8082	9/8/2006
Arochlor-1232	< 176.	ug/Kg, dry	SW 8082	9/8/2006
Arochlor-1242	< 176.	ug/Kg, dry	SW 8082	9/8/2006
Arochlor-1248	< 176.	ug/Kg, dry	SW 8082	9/8/2006
Arochlor-1254	1,160.	ug/Kg, dry	SW 8082	9/8/2006
Arochlor-1260	594.	ug/Kg, dry	SW 8082	9/8/2006
Arochlor-1268	< 176.	ug/Kg, dry	SW 8082	9/8/2006
Percent Solids	94.	%	SW 8082	8/28/2006
Surrogate 1	94.	%	SW 8082	9/8/2006

Ref. Number: 281154 Site: SB-1 4.0 Date Sampled: August 23, 2006 Time: 1:45 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 182.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1221	< 182.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1232	< 182.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1242	< 182.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1248	< 182.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1254	186.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1260	< 182.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1268	< 182.	ug/Kg, dry	SW 8082	9/9/2006
Percent Solids	91.	%	SW 8082	8/28/2006
Surrogate 1	68.	%	SW 8082	9/9/2006

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot/061752-R
REPORT September 12, 2006

ORDER ID: 47524
DATE RECEIVED: August 23, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 281155 Site: SB-2 2.0 Date Sampled: August 23, 2006 Time: 1:18 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1221	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1232	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1242	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1248	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1254	1,060.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1260	334.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1268	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Percent Solids	90.	%	SW 8082	8/28/2006
Surrogate 1	102.	%	SW 8082	9/9/2006

Ref. Number: 281156 Site: SB-2 4.0 Date Sampled: August 23, 2006 Time: 1:18 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1221	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1232	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1242	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1248	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1254	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1260	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1268	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Percent Solids	90.	%	SW 8082	8/28/2006
Surrogate 1	88.	%	SW 8082	9/9/2006

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot/061752-R
REPORT September 12, 2006

ORDER ID: 47524
DATE RECEIVED: August 23, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 281157 Site: SB-3 2.0 Date Sampled: August 23, 2006 Time: 1:08 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 177.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1221	< 177.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1232	< 177.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1242	< 177.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1248	< 177.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1254	1,310.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1260	2,130	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1268	< 177.	ug/Kg, dry	SW 8082	9/9/2006
Percent Solids	94.	%	SW 8082	8/28/2006
Surrogate 1	84.	%	SW 8082	9/9/2006

Ref. Number: 281158 Site: SB-3 4.0 Date Sampled: August 23, 2006 Time: 1:08 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1221	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1232	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1242	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1248	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1254	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1260	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1268	< 188.	ug/Kg, dry	SW 8082	9/9/2006
Percent Solids	89.	%	SW 8082	8/28/2006
Surrogate 1	88.	%	SW 8082	9/9/2006

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot/061752-R
REPORT September 12, 2006

ORDER ID: 47524
DATE RECEIVED: August 23, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 281159 Site: SB-4 2.0 Date Sampled: August 23, 2006 Time: 12:45 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 1,780.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1221	< 1,780.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1232	< 1,780.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1242	< 1,780.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1248	< 1,780.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1254	31,700.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1260	15,600.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1268	< 1,780.	ug/Kg, dry	SW 8082	9/11/2006
Percent Solids	94.	%	SW 8082	8/28/2006
Surrogate 1	86.	%	SW 8082	9/11/2006

Ref. Number: 281160 Site: SB-4 4.0 Date Sampled: August 23, 2006 Time: 12:45 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 10.0	ug/Kg	SW 8082	9/9/2006
Arochlor-1221	< 10.0	ug/Kg	SW 8082	9/9/2006
Arochlor-1232	< 10.0	ug/Kg	SW 8082	9/9/2006
Arochlor-1242	< 10.0	ug/Kg	SW 8082	9/9/2006
Arochlor-1248	< 10.0	ug/Kg	SW 8082	9/9/2006
Arochlor-1254	< 10.0	ug/Kg	SW 8082	9/9/2006
Arochlor-1260	< 10.0	ug/Kg	SW 8082	9/9/2006
Arochlor-1268	< 10.0	ug/Kg	SW 8082	9/9/2006
Percent Solids	IS	%	SW 8082	
Surrogate 1	96.	%	SW 8082	9/9/2006

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot/061752-R
REPORT September 12, 2006

ORDER ID: 47524
DATE RECEIVED: August 23, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 281161 Site: SB-5 2.0 Date Sampled: August 23, 2006 Time: 12:38 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 449.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1221	< 449.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1232	< 449.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1242	< 449.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1248	< 449.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1254	5,730.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1260	6,480.	ug/Kg, dry	SW 8082	9/11/2006
Arochlor-1268	< 499.	ug/Kg, dry	SW 8082	9/11/2006
Percent Solids	92.	%	SW 8082	8/28/2006
Surrogate 1	80.	%	SW 8082	9/11/2006

Ref. Number: 281162 Site: SB-5 4.0 Date Sampled: August 23, 2006 Time: 12:38 PM

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1221	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1232	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1242	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1248	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1254	40.8	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1260	54.2	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1268	< 20.0	ug/Kg, dry	SW 8082	9/9/2006
Percent Solids	91.	%	SW 8082	8/28/2006
Surrogate 1	61.	%	SW 8082	9/9/2006

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Stone Environmental, Inc.
PROJECT: Carr Lot/061752-R
REPORT September 12, 2006

ORDER ID: 47524
DATE RECEIVED: August 23, 2006
SAMPLER: DV
ANALYST: 207

Ref. Number: 281163 Site: Duplicate Date Sampled: August 23, 2006 Time: NI

Parameter	Result	Unit	Method	Analysis Date
Arochlor-1016	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1221	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1232	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1242	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1248	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1254	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1260	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Arochlor-1268	< 187.	ug/Kg, dry	SW 8082	9/9/2006
Percent Solids	89.	%	SW 8082	8/28/2006
Surrogate 1	100.	%	SW 8082	9/9/2006

CHAIN OF CUSTODY RECORD

STONE ENVIRONMENTAL INC

Carr Lot 47524 1 of 2 SEI # 061752-R

Sampling Personnel: Dan Voisin

SAMPLE INFORMATION

Sample Identification (Sample #)	Date Collected	Time Collected	Type *	Cont.**	Number of Containers	Analysis Requested: 8082
SB 1 2.0	8/23/06	1345	2	2	1	X
SB 1 4.0		1345			1	X
SB 2 2.0		1318			1	X
SB 2 4.0		1318			1	X
SB 3 2.0		1308			1	X
SB 3 4.0		1308			1	X
SB 4 2.0		1245			1	X
SB 4 4.0		1245			1	X
SB 5 2.0		1238			1	X
SB 5 4.0		1238			1	X

153

Ship To: Enfuse Chemistry

Relinquished By: (Signature)	Date/Time 1435 8/23/06	Received By: (Signature) Stainman	Date/Time 8/23/06 4:20
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time

Special Instructions: * Type of Sample (1) water (2) soil
** Container (1) bag (2) bottle (3) shelby tube (4) other: _____

Condition of samples when received by lab:

☐ ambient air ☐ ice/ice substitute ☐ dry ice

Please remit a completed, signed copy to:

Page __ of __

o:\proj-00\

CHAIN OF CUSTODY RECORD

STONE ENVIRONMENTAL INC

Corr Lot 47524 2q2 SEI # 061752-R

Sampling Personnel: Dan Voisin

SAMPLE INFORMATION

Sample Identification (Sample #)	Date Collected	Time Collected	Type *	Cont.**	Number of Containers	Analysis Requested: 8082
~~SB3 4.0 Dup~~ or 8/24/06	8/23/06		2	2	1	X
SB1 - 4.0 DUP	8/23/06		2	2	1	X

Ship To: Enthalpy Laboratory

Relinquished By: (Signature)	Date/Time 8/24/06 11:35	Received By: (Signature) Staunman	Date/Time 8/23/06 4:20
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time

Special Instructions: * Type of Sample (1) water (2) soil
** Container (1) bag (2) bottle (3) shelby tube (4) other:

Condition of samples when received by lab:

☐ ambient air ☐ ice/ice substitute ☐ dry ice

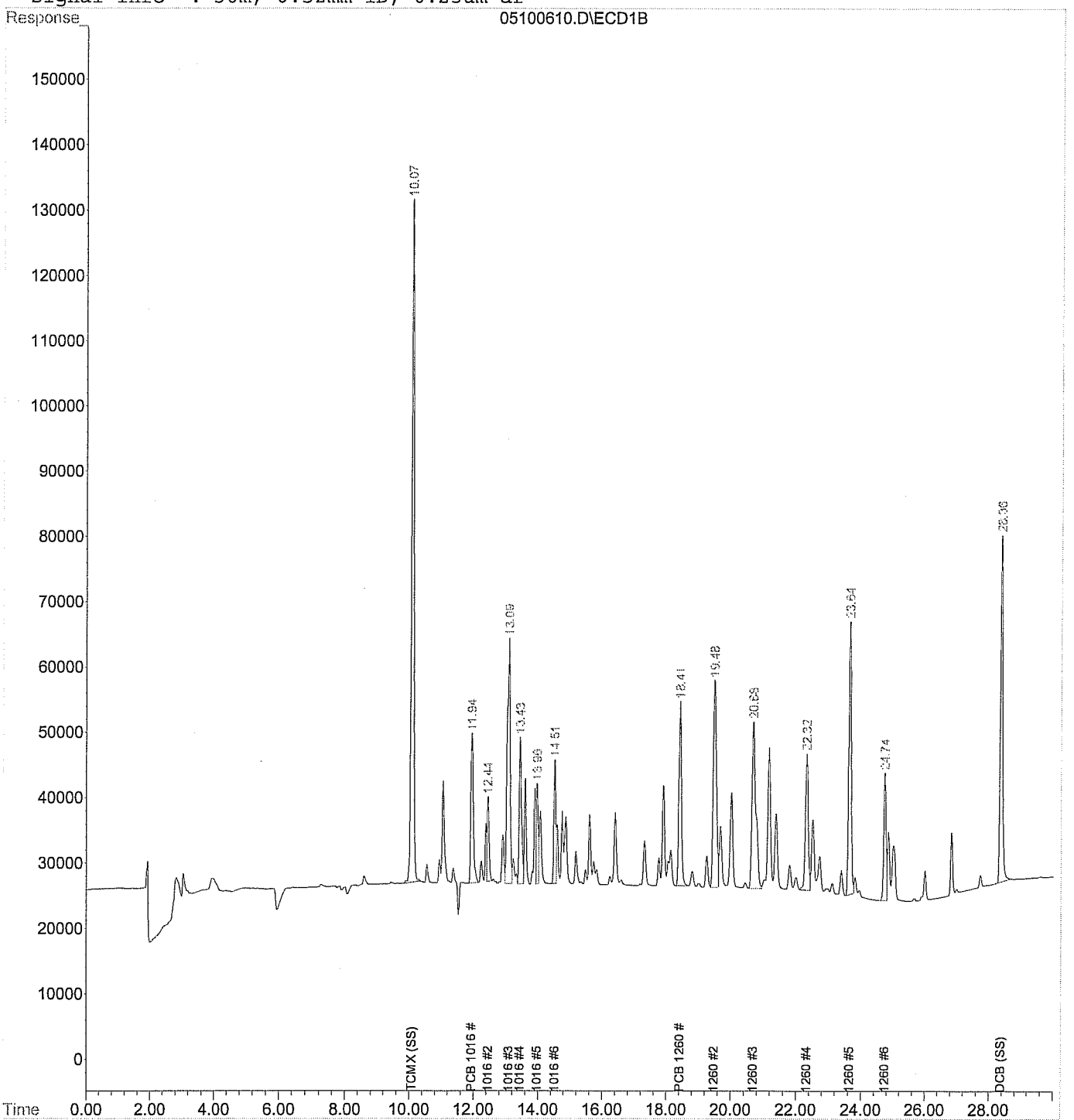
Please remit a completed, signed copy to: Dan Voisin
Stone Environmental Inc

o:\proj-00\

Data File : C:\HPCHEM\2\DATA\MAY2006\05100610.D Vial: 10
Acq On : 11 May 2006 2:44 am Operator: Matthew White
Sample : 0.5ug 1016/1260 5/3/06 Inst : Curly
Misc : 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 23 11:32 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2...\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 22 13:40:39 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100610.D Vial: 10
Acq On : 11 May 2006 2:44 am Operator: Matthew White
Sample : 0.5ug 1016/1260 5/3/06 Inst : Curly
Misc : 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 23 11:32 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2...\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 22 13:40:39 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

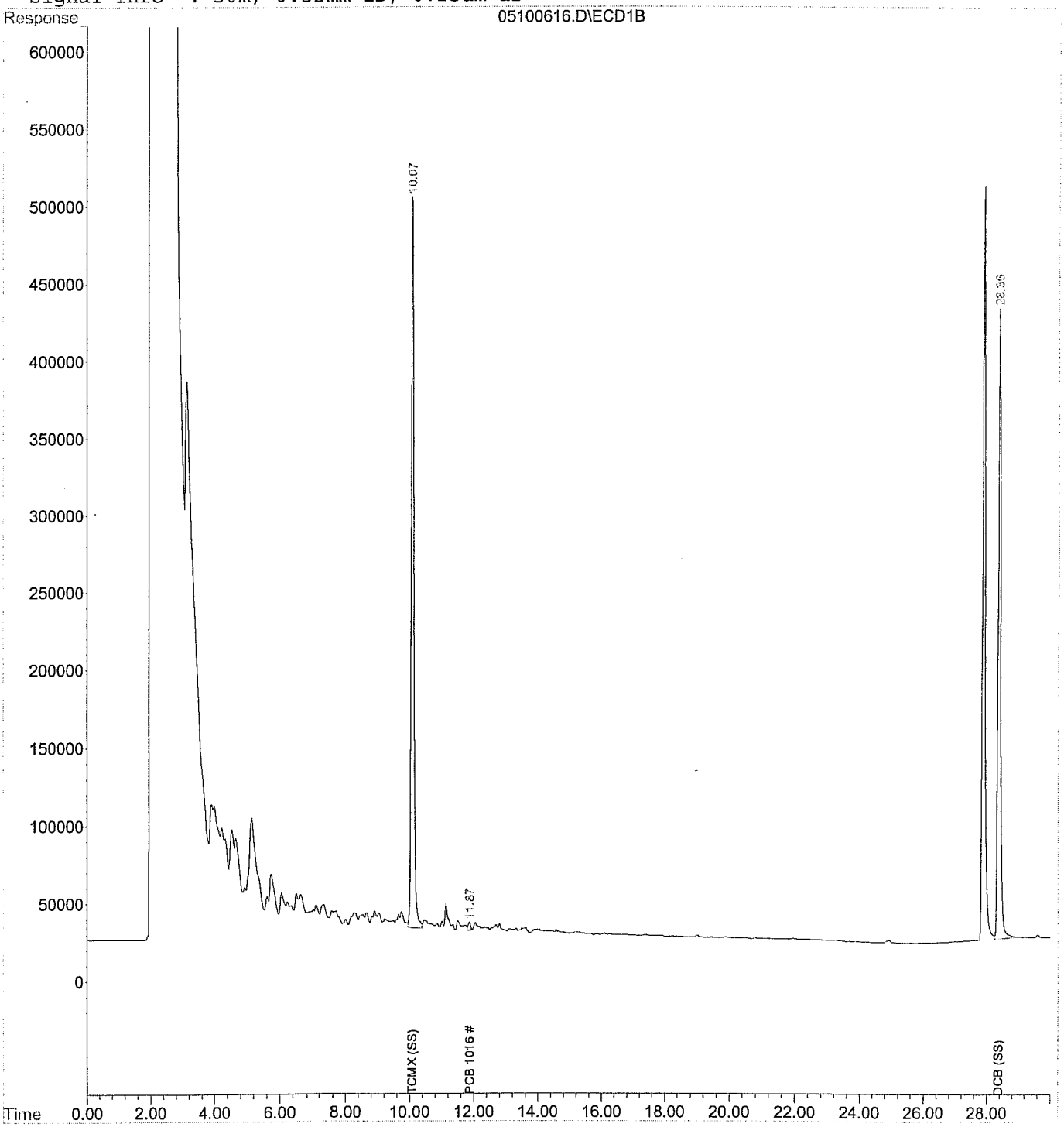
	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	TCMX (SS)	10.07	5174838	0.115	ug	
2)	PCB 1016 #1	11.94	1277585	0.579	ug	
3)	1016 #2	12.44	543557	0.515	ug	
4)	1016 #3	13.09	2424200	0.522	ug	m
5)	1016 #4	13.43	1111942	0.476	ug	
6)	1016 #5	13.96	655138	0.498	ug	
7)	1016 #6	14.51	786565	0.532	ug	
8)	PCB 1260 #1	18.42	1558195	0.528	ug	
9)	1260 #2	19.49	2186799	0.533	ug	
10)	1260 #3	20.68	2083290	0.579	ug	
11)	1260 #4	22.32	1287284	0.510	ug	
12)	1260 #5	23.64	2225672	0.512	ug	
13)	1260 #6	24.74	955623	0.499	ug	
14)	DCB (SS)	28.36	2756861	0.102	ug	102%

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\MAY2006\05100616.D Vial: 16
Acq On : 11 May 2006 6:09 am Operator: Matthew White
Sample : Blank 5/8/06 Inst : Curly
Misc : 30.0g, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:46 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100616.D Vial: 16
Acq On : 11 May 2006 6:09 am Operator: Matthew White
Sample : Blank 5/8/06 Inst : Curly
Misc : 30.0g, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:46 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

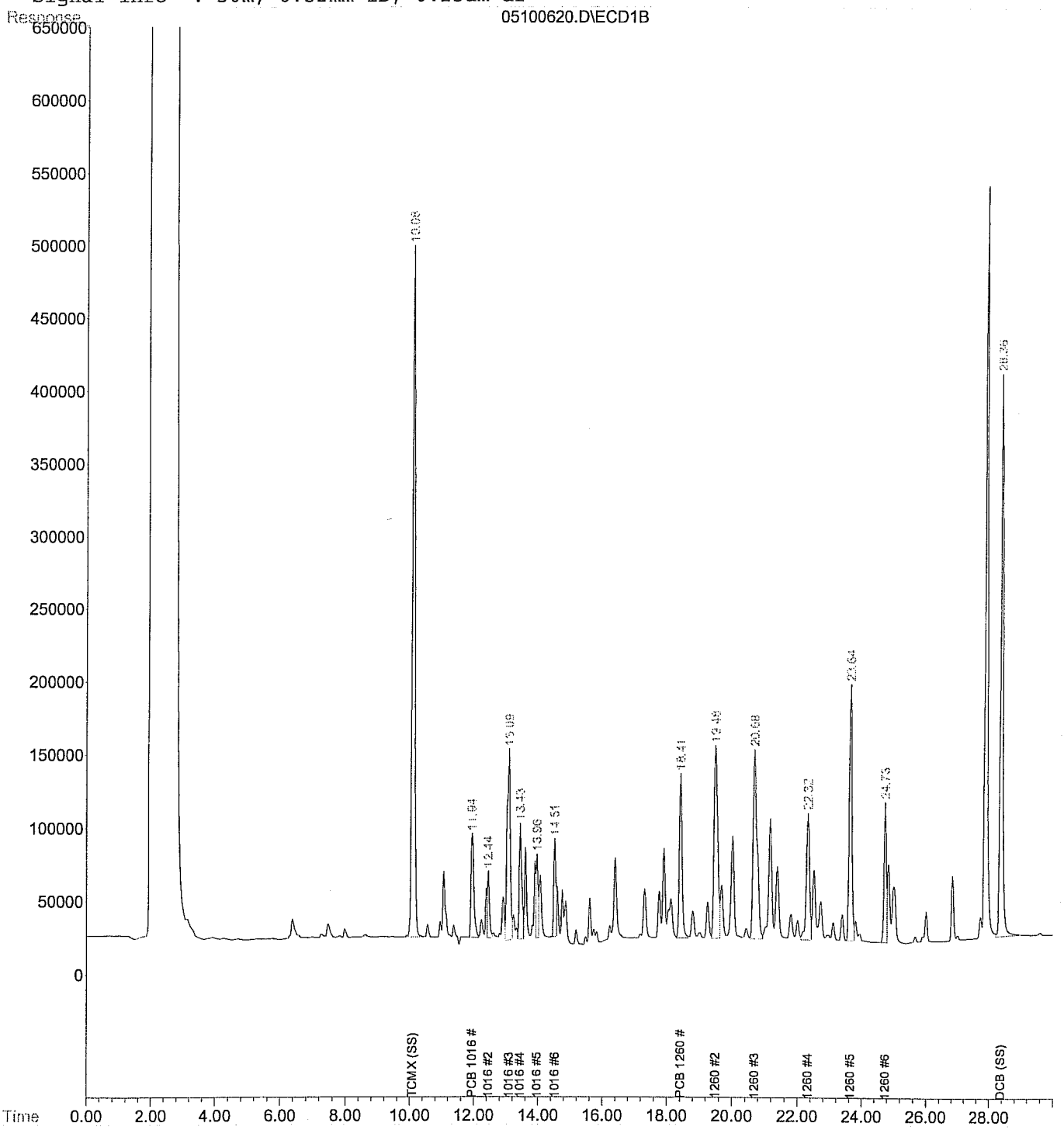
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	TCMX (SS)	10.08	27135844	0.682	ug
2)	PCB 1016 #1	11.87f	318372	0.036	ug
3)	1016 #2	0.00	0	N.D.	ug
4)	1016 #3	13.13	155295	N.D.	ug
5)	1016 #4	13.51f	204731	N.D.	ug
6)	1016 #5	13.92	122604	N.D.	ug
7)	1016 #6	0.00	0	N.D.	ug
8)	PCB 1260 #1	0.00	0	N.D.	ug
9)	1260 #2	0.00	0	N.D.	ug
10)	1260 #3	0.00	0	N.D.	ug
11)	1260 #4	0.00	0	N.D.	ug
12)	1260 #5	0.00	0	N.D.	ug
13)	1260 #6	0.00	0	N.D.	ug
14)	DCB (SS)	28.36	23419942	0.941	ug

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\MAY2006\05100620.D Vial: 20
Acq On : 11 May 2006 8:26 am Operator: Matthew White
Sample : QC (PCB) 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:51 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100620.D Vial: 20
Acq On : 11 May 2006 8:26 am Operator: Matthew White
Sample : QC (PCB) 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:51 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	TCMX (SS)	10.08	26006986	0.653	ug	
2)	PCB 1016 #1	11.94	4328627	2.307	ug	m
3)	1016 #2	12.44	2098715	2.049	ug	m
4)	1016 #3	13.09	8959159	2.322	ug	
5)	1016 #4	13.43	4268056	2.262	ug	
6)	1016 #5	13.96	2506632	2.359	ug	
7)	1016 #6	14.51	2944903	2.304	ug	m
8)	PCB 1260 #1	18.41	6865376	2.739	ug	
9)	1260 #2	19.49	10154125	2.913	ug	
10)	1260 #3	20.68	11350820	3.173	ug	
11)	1260 #4	22.32	5886162	2.515	ug	
12)	1260 #5	23.64	10127291	2.481	ug	
13)	1260 #6	24.74	4962358	0.540	ug	
14)	DCB (SS)	28.36	22253041	0.894	ug	

NC

$\bar{x}$ = 7.27 mg/L

76%

$\bar{x}$ = 2.754 mg/L

92%

x5 = 2.70 mg/L

89%

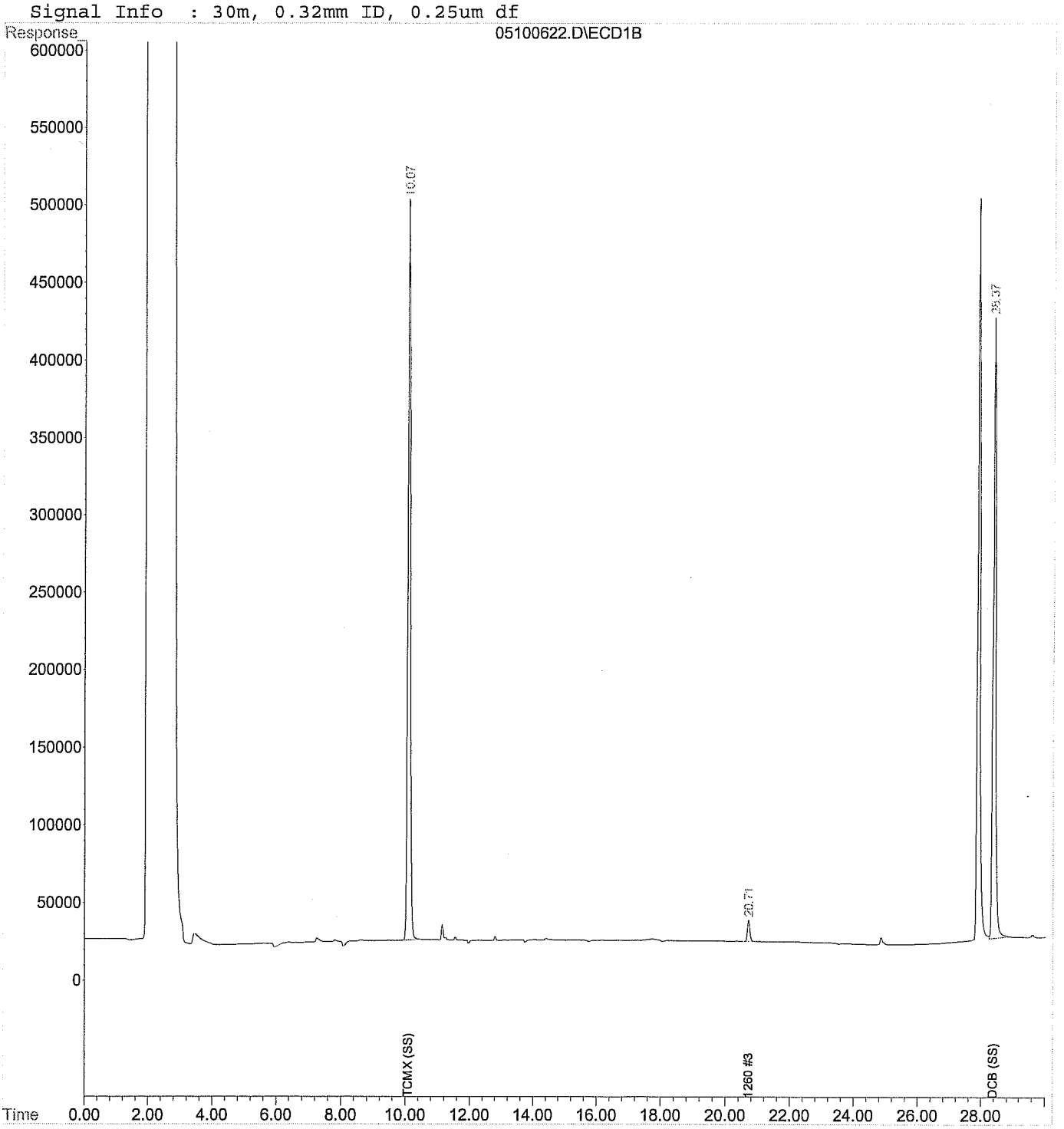
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100622.D Vial: 22
Acq On : 11 May 2006 9:35 am Operator: Matthew White
Sample : 273571 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100622.D Vial: 22
Acq On : 11 May 2006 9:35 am Operator: Matthew White
Sample : 273571 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	TCMX (SS)	10.08	25776705	0.647 ug
2)	PCB 1016 #1	0.00	0	N.D. ug
3)	1016 #2	0.00	0	N.D. ug
4)	1016 #3	0.00	0	N.D. ug
5)	1016 #4	0.00	0	N.D. ug
6)	1016 #5	14.04f	62197	N.D. ug
7)	1016 #6	0.00	0	N.D. ug
8)	PCB 1260 #1	0.00	0	N.D. ug
9)	1260 #2	0.00	0	N.D. ug
10)	1260 #3	20.71	731654	0.201 ug
11)	1260 #4	0.00	0	N.D. ug
12)	1260 #5	0.00	0	N.D. ug
13)	1260 #6	0.00	0	N.D. ug
14)	DCB (SS)	28.37	22982161	0.923 ug

93% J

All PCBs < 0.5 µg/L ✓

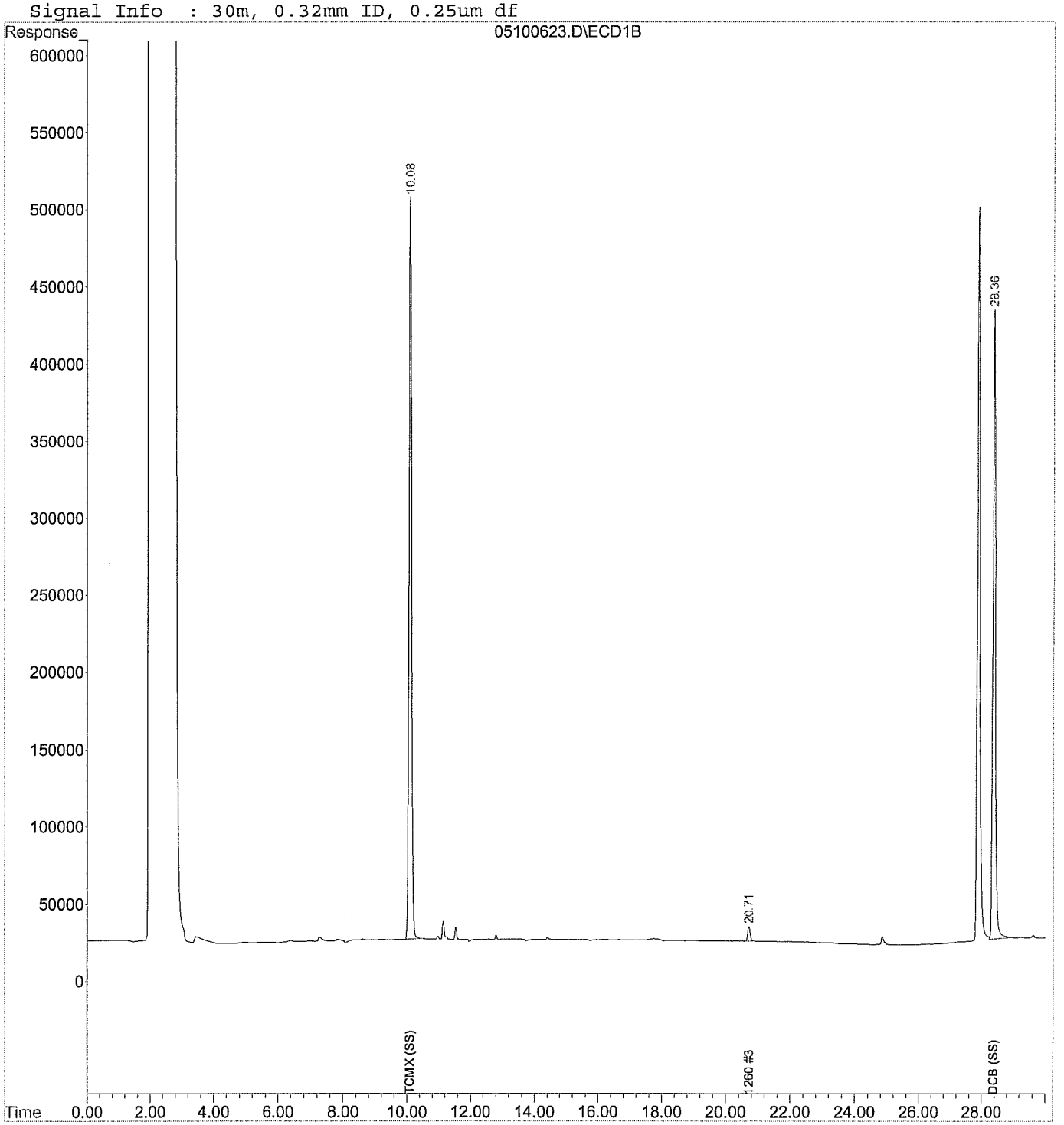
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100623.D Vial: 23
Acq On : 11 May 2006 10:09 am Operator: Matthew White
Sample : 273572 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (Not Reviewed)

MJ

Data File : C:\HPCHEM\2\DATA\MAY2006\05100623.D Vial: 23
Acq On : 11 May 2006 10:09 am Operator: Matthew White
Sample : 273572-5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	TCMX (SS)	10.08	27063189	0.680 ug
2)	PCB 1016 #1	0.00	0	N.D. ug
3)	1016 #2	0.00	0	N.D. ug
4)	1016 #3	0.00	0	N.D. ug
5)	1016 #4	0.00	0	N.D. ug
6)	1016 #5	0.00	0	N.D. ug
7)	1016 #6	0.00	0	N.D. ug
8)	PCB 1260 #1	0.00	0	N.D. ug
9)	1260 #2	0.00	0	N.D. ug
10)	1260 #3	20.71	494939	0.134 ug
11)	1260 #4	0.00	0	N.D. ug
12)	1260 #5	0.00	0	N.D. ug
13)	1260 #6	0.00	0	N.D. ug
14)	DCB (SS)	28.37	23372950	0.939 ug 94% J

All PCBs < 0.5 mg/L

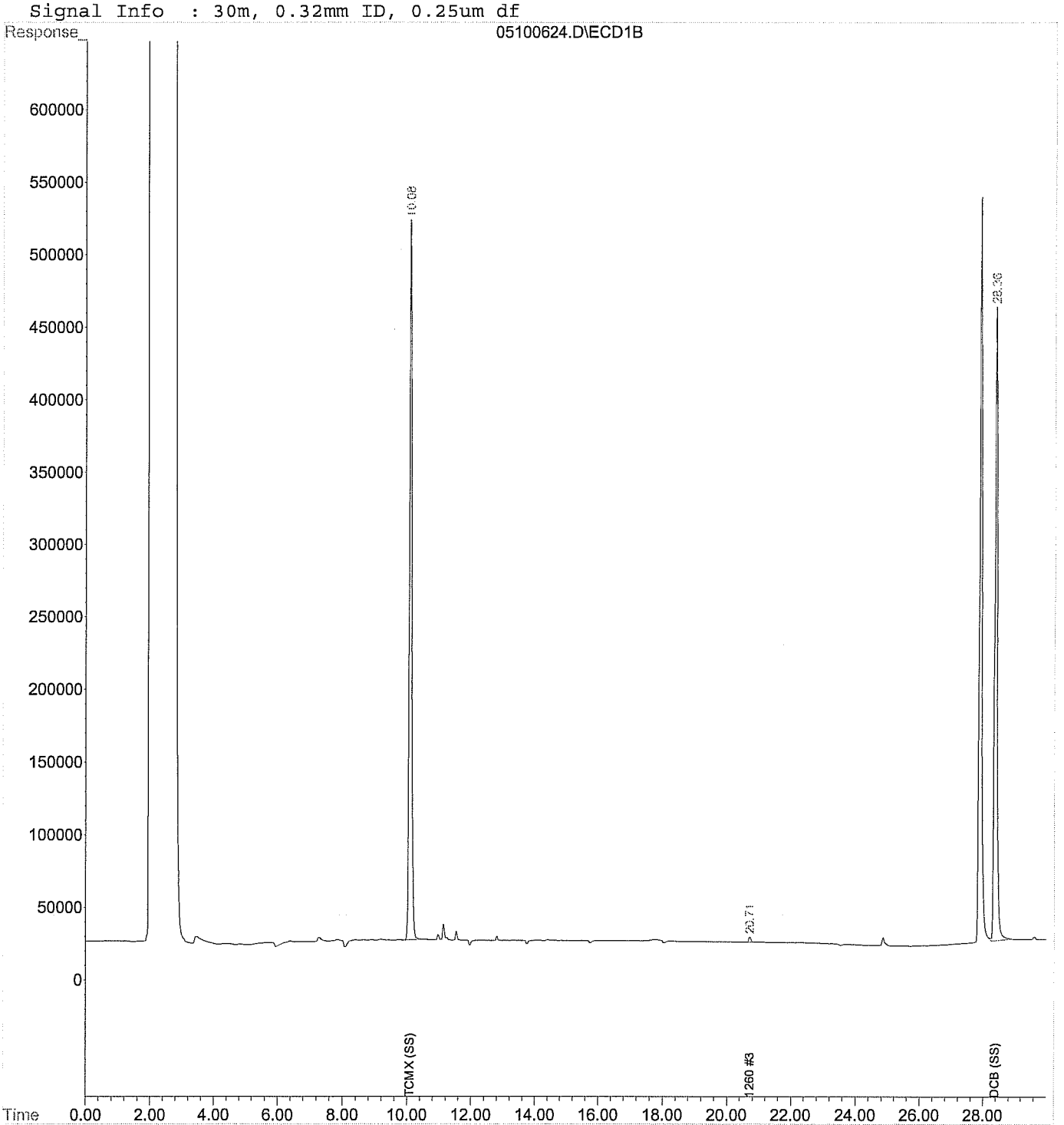
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100624.D Vial: 24
Acq On : 11 May 2006 10:43 am Operator: Matthew White
Sample : 273573 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100624.D Vial: 24
Acq On : 11 May 2006 10:43 am Operator: Matthew White
Sample : 273573/5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	TCMX (SS)	10.08	26492878	0.665	ug
2)	PCB 1016 #1	0.00	0	N.D.	ug
3)	1016 #2	0.00	0	N.D.	ug
4)	1016 #3	0.00	0	N.D.	ug
5)	1016 #4	0.00	0	N.D.	ug
6)	1016 #5	0.00	0	N.D.	ug
7)	1016 #6	0.00	0	N.D.	ug
8)	PCB 1260 #1	0.00	0	N.D.	ug
9)	1260 #2	0.00	0	N.D.	ug
10)	1260 #3	20.71	169644	0.043	ug
11)	1260 #4	0.00	0	N.D.	ug
12)	1260 #5	0.00	0	N.D.	ug
13)	1260 #6	0.00	0	N.D.	ug
14)	DCB (SS)	28.36	25071682	1.008	ug

(101%)

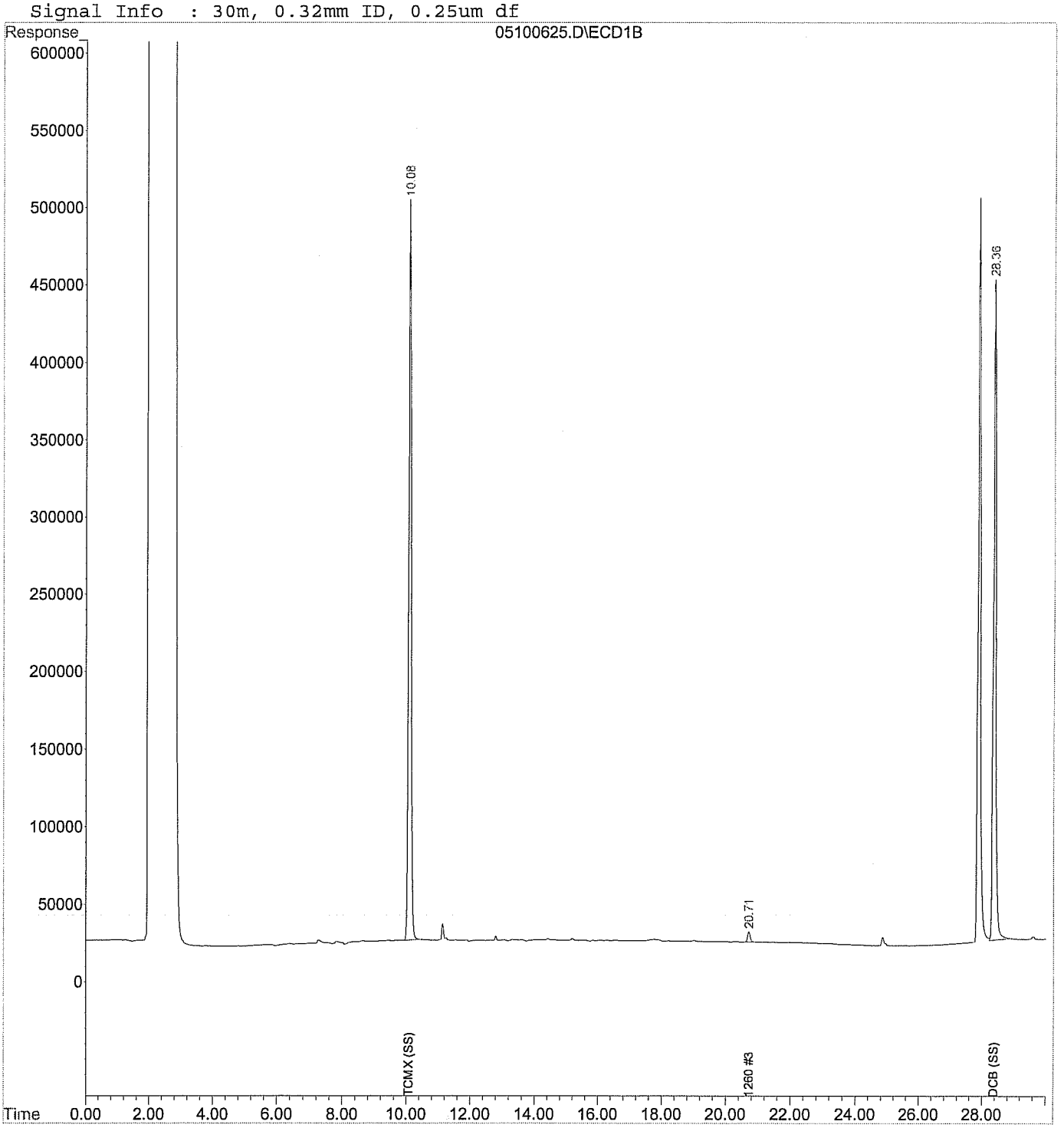
All PCBs < 0.5 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\MAY2006\05100625.D Vial: 25
Acq On : 11 May 2006 11:17 am Operator: Matthew White
Sample : 273574-5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100625.D Vial: 25
Acq On : 11 May 2006 11:17 am Operator: Matthew White
Sample : 273574 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	TCMX (SS)	10.08	26692641	0.671	ug
2)	PCB 1016 #1	0.00	0	N.D.	ug
3)	1016 #2	0.00	0	N.D.	ug
4)	1016 #3	0.00	0	N.D.	ug
5)	1016 #4	0.00	0	N.D.	ug
6)	1016 #5	0.00	0	N.D.	ug
7)	1016 #6	0.00	0	N.D.	ug
8)	PCB 1260 #1	0.00	0	N.D.	ug
9)	1260 #2	0.00	0	N.D.	ug
10)	1260 #3	20.71	348310	0.093	ug
11)	1260 #4	0.00	0	N.D.	ug
12)	1260 #5	0.00	0	N.D.	ug
13)	1260 #6	0.00	0	N.D.	ug
14)	DCB (SS)	28.36	24343629	0.979	ug

98% J

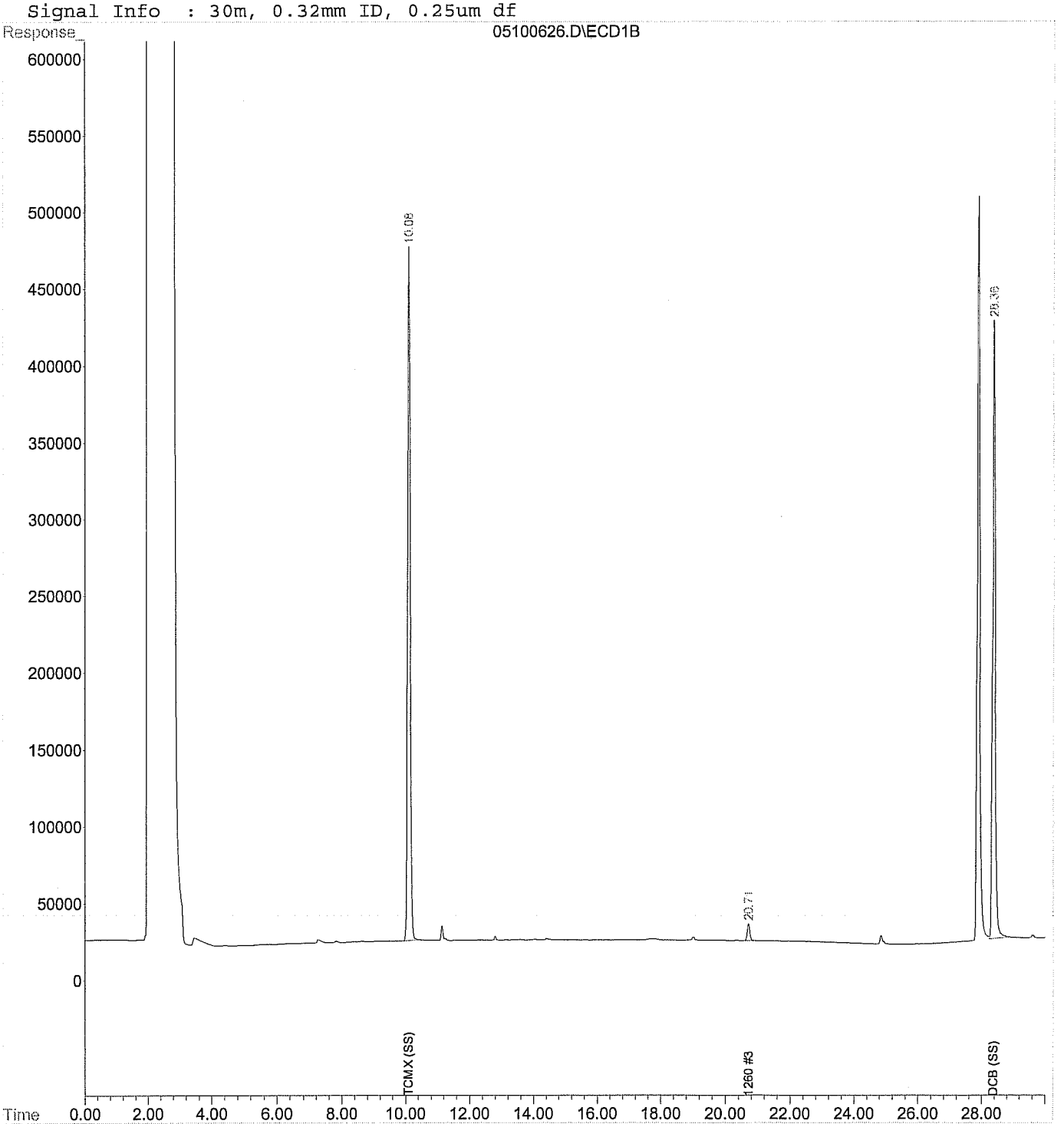
All PCBs < 0.5 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\MAY2006\05100626.D Vial: 26
Acq On : 11 May 2006 11:51 am Operator: Matthew White
Sample : 273575/5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100626.D Vial: 26
Acq On : 11 May 2006 11:51 am Operator: Matthew White
Sample : 273575 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	TCMX (SS)	10.08	26109397	0.656	ug	
2)	PCB 1016 #1	0.00	0	N.D.	ug	
3)	1016 #2	0.00	0	N.D.	ug	
4)	1016 #3	0.00	0	N.D.	ug	
5)	1016 #4	0.00	0	N.D.	ug	
6)	1016 #5	0.00	0	N.D.	ug	
7)	1016 #6	0.00	0	N.D.	ug	
8)	PCB 1260 #1	0.00	0	N.D.	ug	
9)	1260 #2	0.00	0	N.D.	ug	
10)	1260 #3	20.71	590701	0.161	ug	
11)	1260 #4	0.00	0	N.D.	ug	
12)	1260 #5	0.00	0	N.D.	ug	
13)	1260 #6	0.00	0	N.D.	ug	
14)	DCB (SS)	28.37	23044763	0.926	ug	93%

All PCBs < 0.5 mg/L

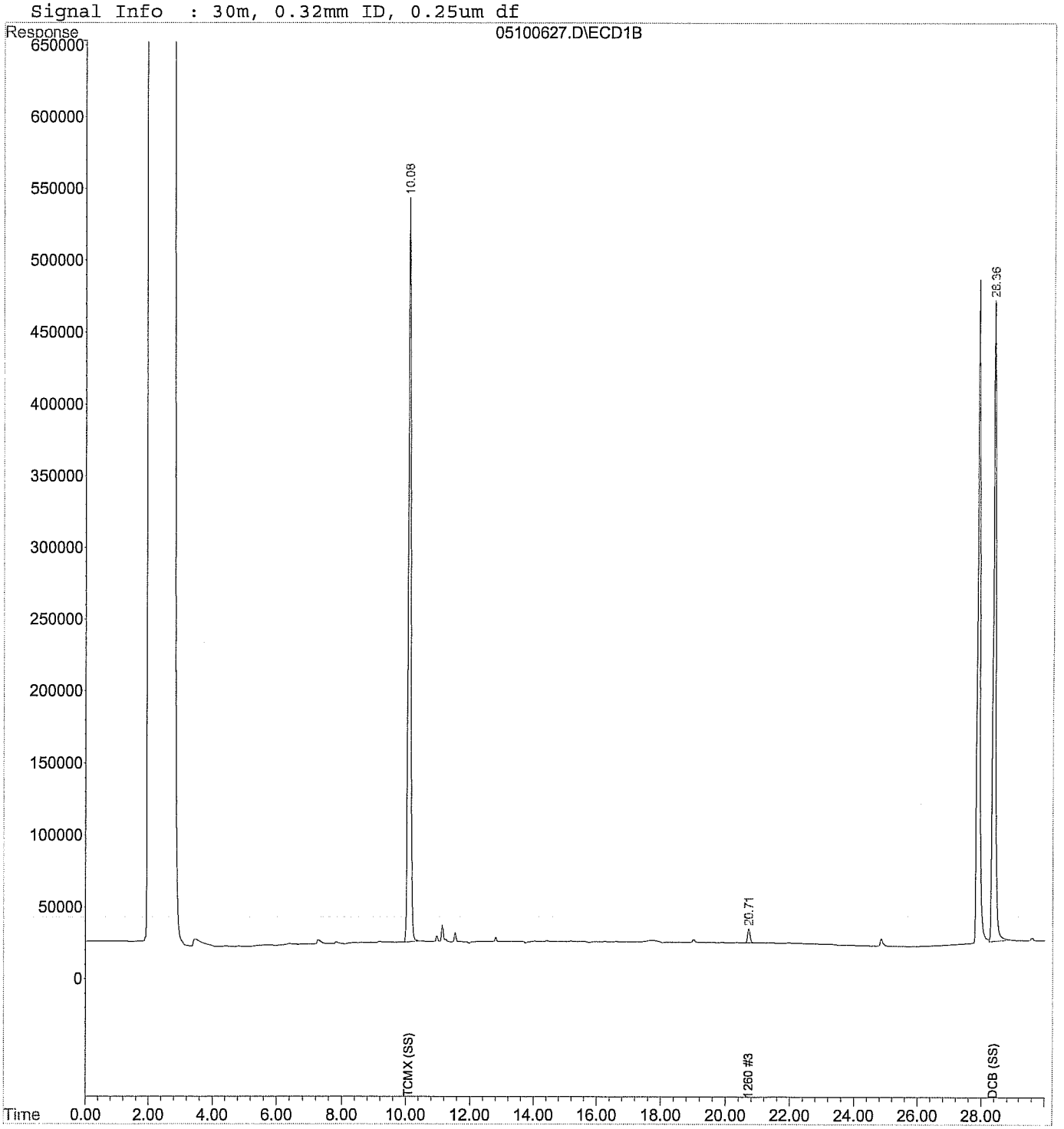
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100627.D Vial: 27
Acq On : 11 May 2006 12:26 pm Operator: Matthew White
Sample : 273576-5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Multiple Level Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\MAY2006\05100627.D Vial: 27
Acq On : 11 May 2006 12:26 pm Operator: Matthew White
Sample : 273576 5/9/06 Inst : Curly
Misc : 1.0L, 4.0ml Multiplr: 1.00
IntFile : events.e
Quant Time: May 15 14:52 2006 Quant Results File: PCB-0510.RES

Quant Method : C:\HPCHEM\2\METHODS\PCB-0510.M (Chemstation Integrator)
Title : SW 8082 Calibration for Aroclor 1016 & 1260
Last Update : Mon May 15 14:42:21 2006
Response via : Initial Calibration
DataAcq Meth : AQ-8080.M

Volume Inj. : 2.0ul
Signal Phase : Stx-CLPesticides2
Signal Info : 30m, 0.32mm ID, 0.25um df

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	TCMX (SS)	10.08	29241519	0.736	ug	
2)	PCB 1016 #1	0.00	0	N.D.	ug	
3)	1016 #2	0.00	0	N.D.	ug	
4)	1016 #3	0.00	0	N.D.	ug	
5)	1016 #4	0.00	0	N.D.	ug	
6)	1016 #5	0.00	0	N.D.	ug	
7)	1016 #6	0.00	0	N.D.	ug	
8)	PCB 1260 #1	0.00	0	N.D.	ug	
9)	1260 #2	0.00	0	N.D.	ug	
10)	1260 #3	20.71	507385	0.138	ug	
11)	1260 #4	0.00	0	N.D.	ug	
12)	1260 #5	0.00	0	N.D.	ug	
13)	1260 #6	0.00	0	N.D.	ug	
14)	DCB (SS)	28.36	25588966	1.029	ug	103%

All PCBs < 0.5 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int.

APPENDIX D

CLEAN HARBORS, INC. PROPOSAL FOR REMEDIAL ACTIVITIES AND SPECIFICATIONS FOR DISPOSAL

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

338 Commerce Street
Williston, VT 05495
802-651-0554
www.cleanharbors.com

October 9, 2006

Dan Voisin
Stone Environmental
535 Stone Cutters Way
Montpelier VT 05602

RE: Montpelier car lot RFP

Dear Mr. Voisin:

Thank you for considering Clean Harbors Environmental Services, Inc. for your environmental service needs. We provide a broad range of environmental services including hazardous and non-hazardous waste transportation and disposal, laboratory chemical packing, emergency response, and field services and industrial maintenance. We are pleased to provide this proposal based on the scope of work outlined below.

Clean Harbors personnel will meet to discuss all aspects of health, safety and compliance. Personnel will don the appropriate level of personal safety equipment. Clean Harbors will mobilize equipment on site.

Scope of Work:

Clean Harbors will excavate and dispose of approximately 3 cubic yards of PCB contaminated soil. After removing soils Clean Harbors will then backfill the excavation and install a cap on the area. All waste will be transported to a Clean Harbors Facility for disposal.

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

Quotation:

*Using Cusco

Labor:.....**$1,260.00 / per day**
Includes:
foreman, equipment operator, field technician, Cusco, materials

Equipment.....**$ 450.00 / per day**
Min-Excavator

Transportation.....**$ 850.00**
Cusco to Braintree Facility

Disposal
estimated 3 tons of (CNO) Non RCRA solids for landfill @ $140.00/ per ton.....**$420.00**
or
(CHSL) PCB solids for landfill @ $285.00/ per ton.....**$855.00**

Backfill.....**$ 450.00**
(includes compacting)

Estimated total (CNO).....**$3,755.85**

Estimated total (CHSL).....**$4,232.18**
(based on estimated disposal quantities and recovery fee)

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

*Using Flex bins

Labor:.....**$1,056.00 / per day**
Includes:
foreman, 2 field technicians, flex bins @ $100/ per bin

Equipment.....**$ 450.00 / per day**
Min-Excavator

Disposal$ 1,470.00
Estimated 3 flex bins of (CHSL) @ $490.00 per flex bin.....**$ 1,470.00**
or
(CNO) @ $360.00 per flex bin.....**$ 1,080.00**

Transportation.....**$ 400.00**

Backfill.....**$ 450.00**
(includes compacting)

Estimated Total (CNO).....**$3,762.42**

Estimated Total (CHSL).....**$4,134.72**
(Based on estimated disposal quantities and Recovery Fee)

Recovery fee for Energy and Security **9.5% of total invoice**

Details of recovery fee

Many of the rising costs in the industry, such as energy costs for our facilities, fuel surcharges from our transportation providers, insurance costs and enhanced security levels at our facilities, are new costs beyond our normal cost of operations.

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

The proposal is based on the following assumptions and site conditions. Any work that falls outside of the assumptions will constitute work beyond the intended scope and be completed upon mutually satisfactory terms.

- Client will provide free and clear access to work area for manpower and equipment.
- Any work stoppage not created by Clean Harbors will be charges at a time and materials rate.
- Stone Environmental representative will be onsite to direct Crew

Clean Harbors guarantees to hold these prices firm for 30 days. Clean Harbors' standard credit terms are net 15 days.

This proposal is submitted contingent upon the right to negotiate mutually acceptable contract terms and conditions, which are reflective of the work contemplated, and an equitable distribution of the risks involved therein. In the event that such agreement cannot be reached, Clean Harbors reserves the right to decline to enter into such an agreement without prejudice or penalty.

Thank you for allowing Clean Harbors the opportunity to provide this proposal to you. If you have any questions or would like to schedule the above referenced work, please contact me at (802) 651-0554
Sincerely,

David Comolli

Field Service Specialist
Comolli.david@cleanharbors.com

CleanHarbors
ENVIRONMENTAL SERVICES, INC.

Acknowledgement:

Your signature below indicates your acceptance of the pricing and terms detailed in the above quote.

Thank you.

_____ _____

Signature PO#

Transportation & Disposal

Braintree, Massachusetts Facility Facts

The Braintree facility has a Part B Hazardous Waste License and has been permitted by the Massachusetts Department of Environmental Protection to receive, store, treat and transfer a variety of waste streams. The treatment methods utilized at this facility reduce the volume and/or toxicity of waste materials or make it suitable for further treatment, reuse, or disposal.

Permits

- U.S. EPA ID No. MAD053452637
- Massachusetts Department of Environmental Protection Air Permit:
  - Restricted Emission Status (MBR-95-RES-047)
  - Diesel Generator (MBR-89-COM-31)
  - Cleaver Brooks Boiler (MBR-86-COM-027)
  - LUWA Solvent Recovery System (MBR-88-IND-229)
  - Ventilator Exhaust System (MBR-87-IND-191)
- Part B Hazardous Waste License (TSDF) Permit No. 5B, Issued January 13,1999 by Massachusetts Department of Environmental Protection
- U.S. EPA/DEP National Pollutant Discharge Elimination System (NPDES) Stormwater - Operating Permit No. MA0031551
- U.S. EPA – Toxic Substances Control Act Interim Commercial Storage Facility Permit for Polychlorinated Biphenyls

Facility Description

Start-up Date: February 1976

Facility Size: 11.2 acres

Services Provided:

- Solvent Reclamation (Halogenated Solvents)
- Fuels Blending
- Stabilization
- Container Storage, Consolidation and Transfer

Typical Customers: electronic equipment; chemical, plastics, and machinery manufacturers; medical facilities; laboratories; colleges and universities; utilities; petroleum distribution; and government facilities.

Typical Waste Streams: spent flammable solvents; oils; inorganic aqueous wastewaters; metal contaminated liquids and solids; contaminated soils and debris; chemical spill clean ups; halogenated solvents; PCB oils and contaminated equipment; cyanide and sulfide liquids and solids.

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

Clean Harbors of Braintree, Inc. • 1 Hill Avenue • Braintree, Massachusetts 02184 • 781.849.1800 • www.cleanharbors.com

Transportation & Disposal

Grassy Mountain, Utah Facility Facts

The Grassy Mountain landfill facility is located in Utah's Great Salt Lake Desert, about 75 miles west of Salt Lake City. This facility provides landfill services for RCRA and TSCA (PCB) wastes as well as solidification and metals fixation for RCRA material.

Permits

- RCRA Part B Permit UTD991301748
- TSCA Commercial PCB Storage and Landfill Approvals
- Utah Air Approval Order No. DAQE 889-96
- BLM Permit to Move Soil No. S-60748

Facility Description & General Information

Start-up Date: 1982

Facility Size: 1 square mile with a half-mile buffer zone on each side

Services Provided:

- Truck and Rail Logistics
- Drain and Flush for PCB Transformers
- Solidification
- Stabilization
- Repackaging

Typical Customers: incinerators, governmental agencies, mines, automobile manufacturers and utilities.

Typical Waste Streams: PCB contaminated soils, PCB electrical equipment, PCB contaminated debris, etc., non-hazardous soils and other non-hazardous industrial wastes, asbestos wastes, hazardous waste for treatment of metals, plating wastes, acidic wastes, caustic wastes, hazardous debris and non PCB liquid wastes for solidification and landfill.

Treatment, Storage and Disposal Capabilities

- RCRA Drum Storage: 2,217 55-gallon containers
- PCB Drum Storage: 350 55-gallon equivalent containers and two 3,000 gallon tanks
- RCRA Landfill Capacity: 710,768 cubic yards
- TSCA Landfill Capacity: 773,712 cubic yards
- Bulk Solids Container Capacity: 100 20-cubic yard equivalent containers.
- Wide range of permitted waste codes
- PCB liquid storage for 63,982 gallons

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

Clean Harbors Grassy Mountain, LLC • Exit 41 Off I-80, 3 miles East, 7 miles North of Knolls • Grassy Mountain, UT 84029 • 801.323.8900 • www.cleanharbors.com

APPENDIX E
PROCEDURE FOR ENSYS IMMUNOASSAY ANALYSIS

Remediation, Assessment & Industrial Testing

EnSys

EnSys PCB Soil & Wipe Test System

Features

- provides semi-quantitative or qualitative results at specified calibrator (action) levels
- rapid field or lab testing, with results in 30 minutes
- test up to 12 samples at one time
- two detection levels of your choice are provided with each sample
- high level of accuracy
- coated tube immunoassay
- EPA SW-846 Method #4020

Test Result Type

- Semi-quantitative or qualitative.
- knowledge of specific aroclor(s) present will aid in accuracy.

Samples per Kit

- 12 soil samples at two detection levels each
- each sample can be tested one at a time or in batches of 2 to 10 samples

Assay Range

- **Soil:** 0.5 ppm to 500 ppm w/ dilutions
- **Wipes:** 5.0 ug/100cm$_2$ to 5000 ug/100cm$_2$ w/ dilutions

Sample Preparation

- Soil samples require prior extraction using the SDI Sample Extraction Kit (sold separately).
- The Sample Extraction Kit provides materials for 12 soil sample extractions with methanol.

Sampling Time

- “Dirt-to-Data” in approximately 30 minutes

STRATEGIC DIAGNOSTICS INC.

Ensys™ PCB Soil Test Kit, EPA Method 4020
7020301

Intended Use

The Ensys PCB Soil Test Kit is a qualitative or semi-quantitative enzyme immunoassay (EIA) for the analysis of polychlorinated biphenyls (PCB) at user specified detection levels in soil. The method correctly identifies 95% of samples that are PCB-free and those containing 1 ppm or greater of PCBs.

Background

PCBs are a family of compounds with 209 individual forms (or congeners) containing from 1-10 chlorine atoms on the biphenyl structure. PCBs were originally sold in the United States under the trade name Aroclor. Each Aroclor is composed of many congeners. Many congeners may appear in more than one Aroclor. Aroclors are differentiated on the basis of average chlorine content (percent chlorine by weight). For Aroclor nomenclature, the last two digits of the four-digit label indicate this percentage. For example, Aroclor 1248 is approximately 48% chlorine by weight.

Test Principles

The Ensys PCB Soil Test Kit is based on the use of antibodies that bind either PCB or PCB-Enzyme Conjugate. These antibodies are immobilized on the walls of the test tubes. When PCB is present in the sample, it competes with the PCB-Enzyme Conjugate for a limited number of PCB binding sites on the immobilized antibodies.

- A sample containing PCB is added to a test tube containing PCB-Enzyme Conjugate. The PCB-Enzyme Conjugate competes with the PCB for the antibody binding sites.
- After incubation, the unbound molecules are washed away.
- Chromogenic Substrate is then added to the test tube. In the presence of bound PCB-Enzyme Conjugate, the clear Substrate is converted to a blue color. One enzyme molecule can convert many Substrate molecules.

Since every test tube has the same number of antibody binding sites and receives the same number of PCB-Enzyme Conjugate molecules, a sample that contains a low concentration of PCB allows the antibody to bind many PCB-Enzyme Conjugate molecules. Therefore, a low concentration of PCB produces a dark blue solution. Conversely, a high concentration of PCB allows fewer PCB-Enzyme Conjugate molecules to be bound by the antibodies, resulting in a lighter blue solution.

NOTE: Color development is inversely proportional to the PCB concentration.

Darker color = lower concentration
Lighter color = higher concentration

The determination of the PCB level in an unknown sample is interpreted relative to the kit standard using visual comparison or by reading with a spectrophotometer. The standard is at a fixed concentration; therefore, the kit detection levels are determined by the dilution of the sample being analyzed. Dilution ampules are provided in the test kit based on the detection level(s) and aroclor specified at the time of ordering.

Performance Characteristics

The Ensys PCB Soil Test Kit is specific for PCB Aroclor congeners. Different Aroclors are detected with varying sensitivity, as per the table below, which indicates the minimum and maximum detection levels that can be accurately achieved with this test kit for various aroclors.

Aroclor	Minimum Detection Level	Maximum Detection Level
1260	0.5 ppm	500 ppm
1254	0.5 ppm	500 ppm
1248	1.0 ppm	500 ppm
1242	2.0 ppm	500 ppm
1232	4.0 ppm	500 ppm
1016	4.0 ppm	500 ppm

- Kit standard is Aroclor 1248

Precautions

- Treat PCB, solutions that contain PCB, and potentially contaminated soil samples as hazardous materials.
- Use gloves, proper protective clothing, and methods to contain and handle hazardous material where appropriate.
- Store all test kit components at ambient temperature (18°C to 27°C or 64°F to 81°F). Do not freeze test kit components.
- This test kit should be operated between 40°F (4°C) and 90°F (32°C)..
- Do not use test kit components after the expiration date.
- Do not use reagents or test tubes from one test kit with reagents or test tubes from a different test kit.
- Do not mix reagents from kits of different lot numbers.
- Use approved methodologies to confirm any positive results.
- Soils obtained from areas adjacent to standing water, surface soils collected during or immediately after rain or snow, or any soils with relatively high amounts of water ($\geq$ 30% by weight) should be dried before testing. Contact technical service for recommended methods.
- Distribution of PCBs in soils may be highly variable. Adequate sample number and distribution are the responsibility of the analyst.
- Portable spectrophotometer battery must be fully charged prior to use. It will not run directly off of AC current.
- Do not expose substrate to direct sunlight.
- Do not dilute or adulterate test reagents or use samples not called for in the test procedure; this may give inaccurate results.
- Tightly recap the PCB calibrator vials to prevent evaporative loss.
- Soils containing high levels of petroleum fuels or transformer oil may affect results. If the addition of sample to the buffer tube results in a cloudy suspension it indicates the presence of petroleum fuels or transformer oil in the sample and results may be invalid.

Materials Provided

- 48 Antibody coated test tubes (12 x75) in a foil pouch
- 2 ampules of PCB Standard (in methanol)
- 48 Glass buffer tubes (10 X 75)
- 48 PCB-Enzyme Conjugate vials w/ gray stoppers
- 15 mL bottle of Substrate A
- 15 mL bottle of Substrate B
- 15 mL bottle of Stop Solution
- 60 mL bottle of Buffer
- 480 mL bottles of Wash Solution (2)
- 24 Pink (50-250 µL) Gilson Microman® positive displacement pipette tips
- User's Guide
- Bulb pipettes (3)
- Amber vials with screw caps (3)
- 12 Small ampule crackers
- 5.0 mL Combitips for Repeater pipettor (3)
- 12.5 mL Combitip for Repeater pipettor

Materials Required and Ordered Separately

See "Ordering Information" for the appropriate catalogue numbers.

SDI Sample Extraction Kit

Use this kit for the extraction of PCB from soil samples. This kit contains enough devices to process 12 samples:

- 12 Extraction jars with screw caps (each bottle contains 3 stainless steel mixing beads)
- 12 Filter modules (tops and bottoms)

- 12 Ampule crackers
- 12 Wooden spatulas
- 12 Weigh Canoes
- 12 Disposable Transfer Pipettes
- 12 Ampules containing 20 mL each of 100% Methanol
- Dilution series with ampules containing required volume of methanol to achieve user defined detection levels

Ensys/Envirogard Field Soil Lab (Accessory Kit)

Accessory equipment may be rented or purchased from Strategic Diagnostics. See "Ordering Information" for the appropriate catalogue numbers.

The accessory kit contains the following items:

- Gilson M-25 Microman Positive Displacement Pipettor
- Eppendorf™ Repeater® Pipettor
- Electronic timer
- Polystyrene test tubes, 12 x 75 mm (for blanking spectrophotometer)
- Portable balance capable of weighing 10 g
- Wash bottle
- 5.0 mL Combitips® for the Repeater pipettor -for 0.1 mL to 0.5 mL dispensing volumes (3)
- 12.5 mL Combitips® for the Repeater pipettor -for 0.25 mL to 1.250 mL dispensing volumes (6)
- 50.0 mL Combitip® for the Repeater pipettor (with adapter)-for 1.0 mL to 5.0 mL dispensing volumes (1)
- Foam workstation
- Differential photometer - allows you to measure results in the form of optical density values. These values can be used for objective record keeping and quality assurance.

NOTE: Order replacement Combitips® and positive displacement tips separately. See the "Ordering Information" section.

Materials Required but Not Provided

- Protective clothing (e.g., latex gloves)
- Absorbent paper for blotting test tubes
- Liquid and solid waste containers
- Marking pen

Suggestions for Pipettor Use

- Practice using both pipettors (positive displacement and Repeater pipettor) with water and extra tips before you analyze your samples.
- Use a new tip each time you use the Repeater pipettor to pipette a different reagent to avoid reagent cross-contamination. Tips can be rinsed thoroughly and reused. By using the same tip to dispense the same reagent each time you can avoid cross contamination.
- Draw the desired reagent volume into the Repeater pipettor and dispense one portion of the reagent back into the container to properly engage the ratchet mechanism. If you do not do this, the first volume delivered may be inaccurate.
- To add reagents using the Repeater pipettor, pipette down the side of the test tube just below the rim.
- When adding samples and standard using the positive displacement pipettor, always pipette below the liquid level. Pipet liquid up and down in tip to ensure complete volume transfer.
- The carryover volume of the positive displacement tips is minimal, but may affect results if you are going from a high to low PCB concentration. Use a new pipettor tip each time you pipette a new unknown.

Assay Procedure

Collect/Store the Sample

The following steps explain how to properly collect and store your samples.

1. Collect soil in appropriately sized and labeled containers.
2. Take care to remove excess twigs, organic matter, and rocks or pebbles from the soil sample to be tested.
3. Soils obtained from areas adjacent to standing water, surface soils collected during or immediately after rain or snow, or any soils with relatively high amounts of water ($\geq$ 30% by weight) should be

dried before testing. Contact Technical Services for recommended methods.

4. Store soil samples at 4°C (39°F).

Workstation Set Up

1. Open one of the ampules labeled "PCB Standard" by slipping the ampule cracker over the top and breaking the tip at the scored neck. Transfer the solution in the ampule to one of the empty amber vials using a bulb pipet and cap the vial. The vial should then be labeled with the current date.

NOTE: The standard is good for two weeks after being transferred from the ampule. After two weeks, a new standard ampule should be opened.

2. Label three 5.0 mL Combitips found in your PCB Soil test kit "A", "B" and "Stop". Label the larger 12.5 mL Combitip "Buffer".

3. Set up the workstation as indicated on Page 7 of this User's Guide.

4. Label the glass buffer tubes and antibody coated tubes as follows (This is an example of how tubes might be labeled for 1 and 10 ppm detection levels. (Do not attempt to run more than 12 tubes per assay, two of which must be standards.):

Tube Label	Tube Contents
Std1	Standard (replicate 1)
Std2	Standard (replicate 2)
#1 - 1 ppm	Sample 1 (1 ppm detection)
#1 - 10 ppm	Sample 1 (10 ppm detection)
#2 - 1ppm	Sample 2 (1 ppm detection)

***Label at top of tubes to avoid interference with reading of tubes in photometer**

Extract the Soil/Dilute the Sample

1. Please follow the instructions from the SDI Sample Extraction Kit to prepare the soil extract before the assay. **20 mL** of **100 % Methanol** will be used to extract PCB residue from a **10 g** soil sample.

2. Position the Repeater pipettor at Setting **4** and use the **12.5 mL** "Buffer" tip to add **1 mL** of Buffer to all glass buffer tubes in Row 2.

3. Open a series of dilution ampules in Row 1 for each sample to be tested by slipping an ampule cracker over the top and breaking at the scored neck. (When testing at 1 and 10 ppm, for example, a 1 and 10 ppm dilution ampule should be opened for each sample.)

NOTE: If your kit includes intermediate dilution ampules to reach your detection level they should be opened for each sample as well.

4. Attach a clean pink pipette tip to the positive displacement pipet and adjust the dial to **"060"** to pipet **60 µL**. Use the pipettor to withdraw 60 uL of filtered sample extract from the filter unit to the dilution ampule with the lowest ppm level. Gently shake ampule from side to side for 5 seconds to mix thoroughly.

5. Withdraw **60 uL** of diluted sample from the first dilution ampule using the positive displacement pipet and transfer to the next highest dilution ampule provided in your kit. Gently shake the ampule from side to side for 5 seconds to mix thoroughly. Continue this procedure for all ampules provided in the dilution series, transferring from the lowest to highest ppm value.

EVERY AMPULE PROVIDED IN THE DILUTION SERIES MUST BE USED IN ORDER TO ACHIEVE YOUR TEST LEVELS!!

6. After all dilutions have been made, use the same pipet tip used for dilution to transfer 60 uL from each dilution ampule to the corresponding glass buffer tube in Row 2.

NOTE: Always begin transfers from ampules to buffer tubes starting with the highest ppm dilution ampule and working to the to the lowest ppm ampule. Wipe the tip of the pipet after dispensing to minimize cross contamination. Do not transfer from dilution ampules which are not at your desired testing levels to glass buffer tubes as this uses reagents and reduces the number of samples obtained per kit.

7. Repeat Steps 4-6 for each sample to be tested, using a clean pipette tip for each new sample.

8. Assemble a new pipette tip on the positive displacement pipette and transfer 60 uL from the standard vial into each of two corresponding glass buffer tubes in Row 2.

CAUTION: Replace the cap(s) on the standard vials immediately after use to minimize evaporation.

9. Gently shake all of the glass buffer tubes for 5 seconds to mix.

Perform the Test

1. Fit all antibody coated tubes in Row 3 firmly on top of all corresponding glass buffer tubes in Row 2. Set a timer for 10 minutes, start the timer and immediately invert all connected tube pairs, working left to right in the workstation. This will transfer buffer to the antibody coated tube. Make sure the plastic antibody coated tube is on the bottom.

2. Again working left to right in the workstation, invert the connected tube pairs three more times, making sure the antibody coated tubes are on the bottom and seated in Row 2 when complete.

3. Disconnect and discard the glass buffer tubes. Do not worry about drops of liquid adhering to the lips of the tubes.

4. During incubation, place conjugate tubes in Row 3 corresponding to each antibody tube in Row 2. Label the conjugate tubes with appropriate sample identification. Remove the grey stoppers and discard.

5. After the 10 minute incubation is over, reset the timer for 5 minutes.

6. Start the timer and immediately dissolve the conjugate pellets by pouring the contents of the antibody coated tubes in Row 2 into their corresponding conjugate tubes in Row 3. Be careful not to spill contents of tubes. Connect the tube pair and transfer the liquid back into the antibody coated tube. Return the connected tube pair to the workstation row making sure the larger antibody coated tube is on the bottom. **It is important that this step is completed within one minute for all tubes.**

7. Invert all connected tube pairs three more times making sure that the pair is returned to the workstation with the larger antibody coated tube on the bottom. Disconnect and discard the smaller conjugate tubes (again, it is not important to worry about the loss of liquid adhering to the lip of the tubes.)

8. After the 5 minute incubation, vigorously shake out the test tube contents into a sink or suitable container. Wash the tubes by vigorously filling and emptying a total of four times with the Wash Solution provided in the test kit. After the last wash, tap the tubes upside down on paper towels to remove excess liquid. (Residual foam will not interfere with results.)

9. Position the Repeater pipettor at Setting **2** and use the **5.0 mL** Combitip labeled "A" to add **200 µL** of Substrate A to all test tubes.

10. Set the timer for exactly 2 ½ minutes but do not start it.

11. Assemble the **5.0 mL** "B" tip on the Repeater pipettor at Setting **2** and fill the tip with Substrate B.

12. Start the timer and use the Repeater pipettor to add **200 uL** of Substrate B to all test tubes. Shake all tubes for 5 seconds. Solution will turn blue in some or all of the tubes.

13. After the 2 ½ minute incubation, position the Repeater pipettor at Setting **2** and use a **5.0 mL** Combitip to add **200 µL** of Stop Solution to all test tubes. This will turn the color from blue to yellow.

WARNING: **Stop solution contains sulfuric acid. Handle carefully.**

Results Interpretation

You can either interpret the results visually within 5 minutes after adding the Substrate to each test tube, or you can perform a more precise analysis with a photometer after you add the Stop Solution.

Visual Interpretation

After you add the Substrate, wait 5 minutes then mix the test tubes by shaking them for a few seconds. Compare the sample test tube to the lighter standard tube against a white background.

- If a sample test tube contains *more* color than the standard test tube, the sample contains PCB at a concentration *lower* than the level being tested.

- If a sample test tube contains *less* color than the standard test tube, the sample may contain PCB at a concentration *greater* than the level being tested.

Photometric Interpretation

NOTE: After you add Stop Solution to the test tubes, results should be read within 30 minutes.

1. Dry the outside of all antibody coated tubes prior to photmetric analysis.

2. Place both standard tubes in the differential photometer.

3. Switch the tubes until the photometer reading is negative or zero. Record the reading.

NOTE: The standard is run in duplicate to provide internal test system quality control. With both standards inserted in the photometer, a valid test is indicated when the magnitude of the displayed number (irrespective of the sign + or -) is less than 0.30. If the number obtained is greater than 0.30 the results are outside QC limits and the test should be repeated to ensure valid conclusions.

4. Remove and discard the tube in the right well of the photometer. The tube in the left well is the conservative standard to which your sample tubes will be compared.

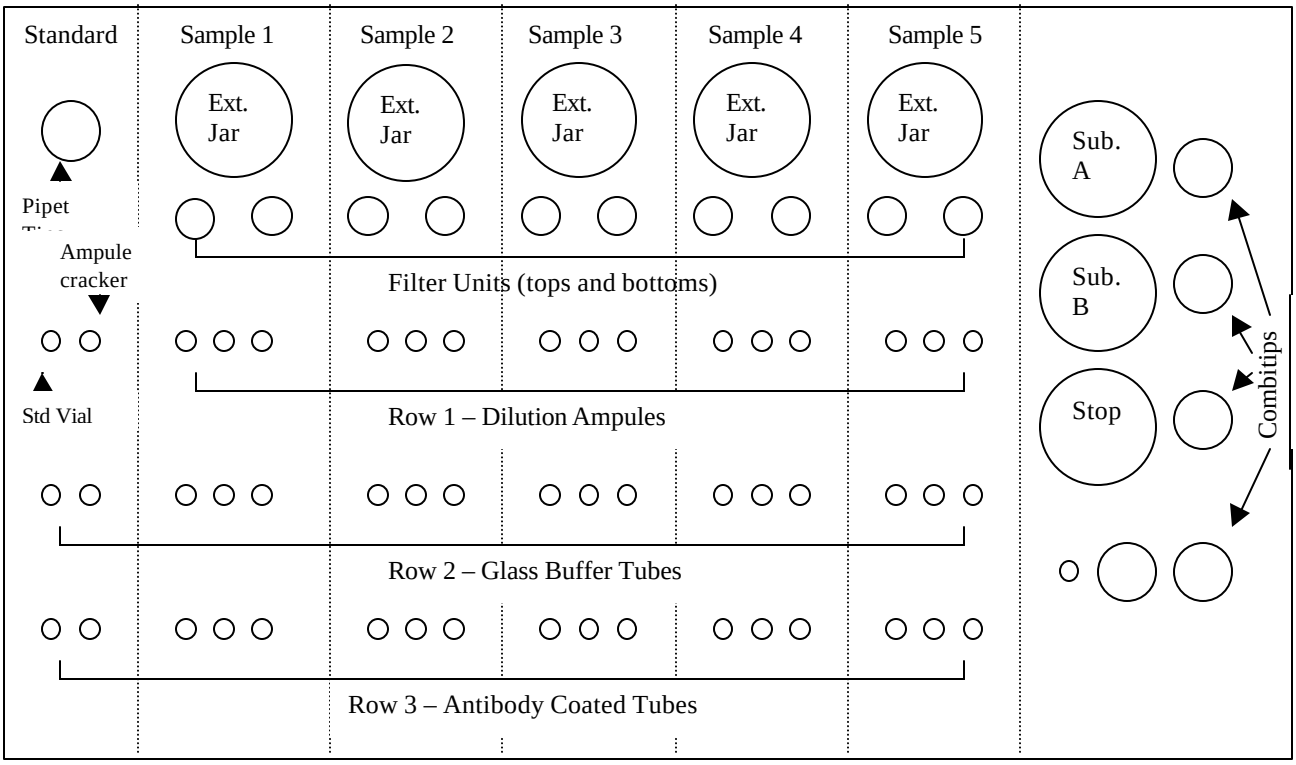
5. Place the antibody coated tubes corresponding to each sample into the right well of the photometer one at a time and record the readings.

    - If the photometer reading is negative or zero, PCBs are present at a level greater than or equal to the testing level for that sample.
    - If the photometer reading is positive, the concentration of PCBs is less than the testing level for that sample.

Limitations of the Procedure

The Ensys PCB Soil Test Kit is a screening test **only**. Soil sampling error may significantly affect testing reliability. The distribution of PCBs in soils can be extremely heterogeneous. Adequate sample number and distribution are the responsibility of the analyst.

Ensys PCB in Soil Workstation Set Up



1. Remove foam workstation from Ensys / Envirogard Field Accessory Kit.
2. Open the SDI Sample Extraction Kit and remove an extraction jar for each sample to be tested. Place in the foam workstation as indicated on the diagram above. The extraction kit also contains bulb pipets which may be placed in the small hole to the left of each extraction jar (not shown).
3. Place a filter unit (top and bottom) from the extraction kit under each extraction jar in the workstation corresponding to each sample.
4. Remove the box of dilution ampules contained in the SDI Sample Extraction kit and place a complete dilution series from the box for each sample to be tested under the filter units corresponding to each sample in the workstation.

   NOTE: A dilution series includes ampules for each level ordered as well as any intermediate levels needed to obtain your desired detection level. EVERY AMPULE IN THE SERIES MUST BE USED IN ORDER TO REACH YOUR DETECTION LEVELS.

5. Place the standard prepared in Step 1 of "Workstation Set Up" in the Ensys PCB Soil Test Kit User's Guide into the hole on the far left of Row 1 in the workstation as indicated on the diagram. Place one of the small ampule crackers provided in the Ensys PCB Soil Test Kit into the hole next to the standard.
6. Into Row 2 place glass buffer tubes (which are the plain glass test tubes in the small box in your test kit) for the desired testing levels for every sample to be tested. (A glass buffer tube should not be added for intermediate levels included in the dilution series.) In the two left holes on Row 2 place two glass buffer tubes for your standard.
7. Antibody coated tubes, which are in the foil pouch in your test kit, should be placed in Row 3 corresponding to each glass buffer tube in Row 2. Keep foil pouch sealed when not in use.
8. Place the bottles of Substrate A, B and Stop into the appropriate workstation holes indicated on the diagram along with their corresponding labeled 5.0 mL Combitips. Place the 12.5 mL Combitip labeled "Buffer" into the hole under those for the 5.0 mL tips.
9. One pink positive displacement pipet tip should be placed in the hole in the upper left corner of the workstation for every sample being tested. An additional tip should be placed in this hole for the standard. These tips will be used perform dilutions and transfer sample to the buffer tubes.

Ordering Information

Description	Catalogue Number
Ensys PCB Soil Test Kit	7020301
SDI Soil Sample Extraction Kit (with methanol in ampules or bulk)	7020301EA / 7020301EB
Ensys/Envirogard Field Soil Lab (Accessory Kit)**	6050400
Differential Photometer (110V)	6000001
Differential Photometer (220V)	6000002
5 mL Combitip for Repeating Pipette (1 each)	6005200
12.5 mL Combitip for Repeating Pipette (1 each)	A00009
50 mL Combitip for Repeating Pipette (1 each)	6005600
Gilson Microman Positive Displacement Pipette Tips- yellow (200/bag)	6030500
Gilson Microman Positive Displacement Pipette Tips – pink (200/bag)	6030600
Ensys/Envirogard Field Soil Lab (Accessory Kit) Rental	6997020
**** To obtain part numbers and pricing for individual items in the Field Soil Lab contact SDI at the number below.**	

Ordering/Technical Assistance

Should you have any questions regarding this procedure prior to analysis contact Technical Service to avoid costly mistakes.

To Place an Order or Receive Technical Assistance, please call Strategic Diagnostics Inc. at:

Call toll-free: **800-544-8881**

Or 302-456-6789 Phone
302-456-6782 Fax
Web site: www.sdix.com
E-mail: techservice@sdix.com

General Limited Warranty

SDI's products are manufactured under strict quality control guidelines and are warranted to be free from defects in materials and workmanship. New instruments and related non-expendable items are warranted for one year from date of shipment against defective materials or workmanship under normal use and service.
Warranty obligation is limited to repair or replacement of the defective product or to refund of the purchase price, at the discretion of SDI. Other warranties, express or implied, are disclaimed. SDI's liability under any warranty claim shall not exceed the refund of the purchase price paid by the customer. Under no circumstances shall SDI be liable for special, indirect or consequential damages.

Safety

To receive an MSDS for this product, visit our web site at www.sdix.com.

3096600.1, Rev 11/1/99

Operation of the Repeater Pipet

To Set or Adjust Volume

To determine the pipetting volume, the dial setting (1-5) is multiplied by the minimum pipetting volume of the tip (indicated on the side of the Combitip, e.g. 1~100 uL.)

To Assemble Pipet Tip

Slide filling lever down until it stops. Then raise the locking clamp and insert the tip until it clicks into position. Be sure the tip plunger is fully inserted into the barrel before lowering the locking clamp to affix the tip in place.

To Fill Tip

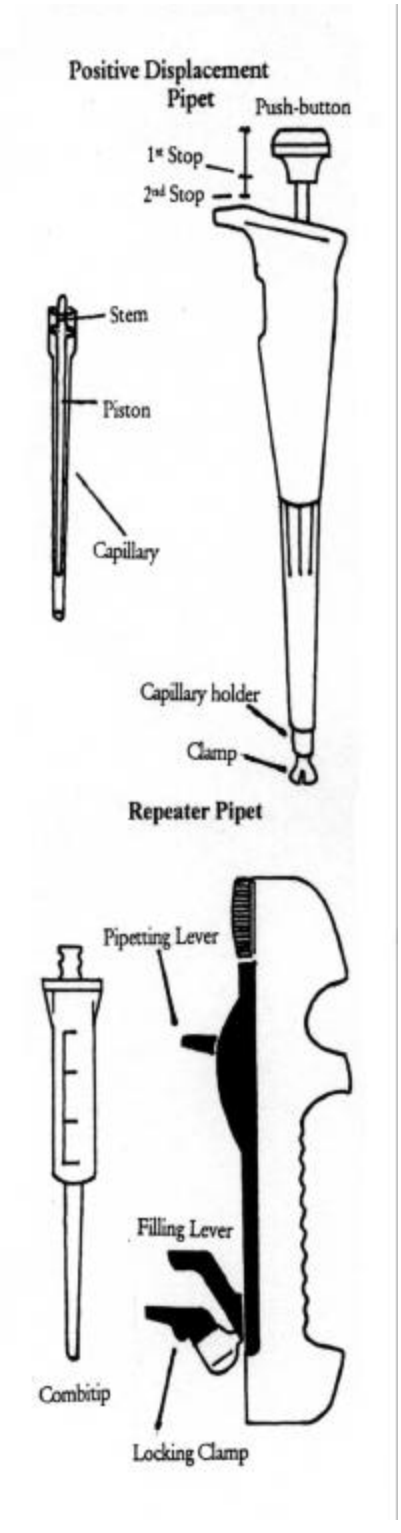
With tip mounted in position on pipet, immerse end of tip into solution. Slide filling lever upward slowly. Combitip will fill with liquid.

To Dispense Sample

Check the volume selection dial to ensure pipetting volume. Place tip inside test tube so that tip touches the inner wall of tube. Completely depress the pipetting lever to deliver sample. NOTE: Dispense one portion of reagent back into the container to engage the ratchet mechanism and ensure accuracy.

To Eject Tip

Empty tip of any remaining solution into appropriate container by pushing filling lever down. Raise locking clamp upward, and remove the Combitip.



Operation of the Positive Displacement Pipet

To Set or Adjust Volume

Turn lower part of push-button to adjust volume up or down. See kit instructions for appropriate setting.

To Assemble Pipet Tip

Press push button to 2nd stop to open clamp (see diagram, this is as far as push button will go down.) Select piston and slide stem fully into clamp. Slide mounted piston into capillary. Gently push capillary until it snaps onto capillary holder.

To Withdraw Sample

With tip mounted in position on pipet, press push-button to 1st stop and hold it. (If you push beyond the 1st stop tip will eject.) Place tip at bottom of liquid sample and slowly release push-button to withdraw measured sample. Ensure that no air bubbles exist in the pipette tip. If bubbles exist, dispense sample and re-withdraw.

To Dispense Sample

Wipe any liquid from outside of capillary taking care not to touch orifice. Place tip into dispensing vessel (immersing end of the tip if vessel contains liquid) and slowly press push-button to 1st stop. Pipet liquid up and down in tip to ensure complete transfer. Hold push-button at 1st stop when removing tip from vessel.

To Eject Tip

Press push-button to second stop. Tip (capillary and piston) is ejected.

NOTE: When using yellow tips on the positive displacement pipet, pipetting volumes range from 5-25 uL.
(i.e. Pipet set on 2-5-0 will pipet 25 uL.)
When using pink tips on the positive displacement pipet, pipetting volumes range from 50-250 uL.
(i.e. Pipet set on 2-5-0 will pipet 250 uL.)

Remediation, Assessment & Industrial Testing

EnSys

Basic Test Procedure

- Transfer soil or wipe to extraction jar.
- Cap and shake for 1 minute.
- Filter extracted sample.
- Pipette and dilute samples with dilution ampule.
- Transfer 1 ml of buffer to glass buffer tubes.
- Pipette and transfer sample to buffer tubes.
- Fit Antibody coated tubes on buffer tubes; invert to mix; return to Antibody coated tube.
- Incubate 10 minutes.
- Connect Antibody coated and Conjugate tubes; invert and mix; return to Antibody coated tube.
- Incubate 5 minutes.
- Wash Antibody coated tubes vigorously 4 times.
- Using Repeater Pipet at Setting 2 and 5 mL tip, transfer 200 µL Substrate A to each tube.
- Add 200 µL Substrate B to each tube; mix.
- Add 200 µL STOP to each tube.
- Read tubes in photometer. Record data.

Specificity

Minimum Aroclor detection levels for the EnSys PCB Soil test are as follows:

Aroclor	1260	1254	1248	1242	1232	1016
(ppm)	0.5	0.5	1.0	2.0	4.0	4.0

Minimum Aroclor detection levels for the EnSys PCB Wipe test are as follows:

Aroclor	1260	1254	1248	1242	1232	1016
(ug/100cm2)	5.0	5.0	10.0	20.0	40.0	40.0

Test Kit Components

- 48 Antibody Coated tubes
- 48 Glass buffer tubes
- Substrate and stop solution reagents
- PCB standard
- Pipette tips

Storage & Precautions

- Shelf life is typically one year from date of manufacture, with specific kit expiration date information provided on product packaging.
- Reagents must be stored at 39° to 46°F (4° to 8°C) when not in use.
- Storage at ambient temperature 64° to 81°F (18° to 27°C) is acceptable for day of use.
- Kits must be brought to 64° to 81°F (18° to 27°C) before use.
- Do not expose color solution to direct sunlight.

Other Required Materials

	SDI Part #
PCB Ensys 12T Accessory Kit	6050400
PCB Ensys 12T Accessory Kit rental (includes all equipment required to operate test and interpret results)	6997020

Tap or laboratory grade water for test tube rinsing
Absorbent paper
Liquid waste container
Disposable gloves
Marking pen

Other Recommended Materials

- Liquid and solid waste containers
- Calculator

Ordering Information

	SDI Part #
PCB EnSys 12T Soil Test Kit	7020301
PCB Soil Sample Extraction Kit	7020301EA
PCB EnSys 12T Wipe Test Kit	7021301
PCB Wipe Sample Extraction Kit	7020301WA

Strategic Diagnostics Inc.
111 Pencader Drive
Newark, DE USA 19702
302.456.6789 *tele*
800.544.8881 *tele*
302.456.6782 *fax*
www.sdix.com

L00000 3/26/98